

Catalog No. 113

Issued September, 1935

IMPERIAL

Automotive Specialties

FOR

Automobiles, Trucks, Tractors, Airplanes,
Motor Boats and Gas Engines



Long Distance Telephone, Haymarket 0740
Cable Address "IMPERBRASS," Chicago

The Imperial Brass Manufacturing Co.

Main Offices and Factory

1200 West Harrison Street — Chicago, Ill., U. S. A.

Printed in U. S. A.

IMPERIAL
▼▼
PRODUCTS

THE IMPERIAL BRASS MANUFACTURING COMPANY

CHICAGO, ILL., U. S. A.

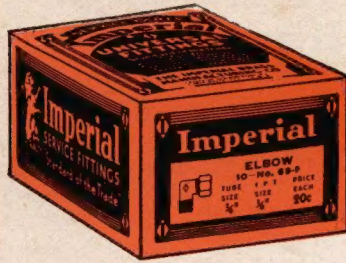
*Guaranteed
Quality*



THE experience of over 40 years in the manufacture of brass and bronze devices gives real meaning to the Imperial guarantee of quality. Any item in this catalog may be purchased with full confidence that it will conform to the strict standard set by Imperial. Its quality is **guaranteed.**

Unlike nearly all other brass concerns, this institution completes all manufacturing processes in its own departments; the operations of casting, machining, stamping, spinning, polishing, plating, etc., are all carried out in its own shops.

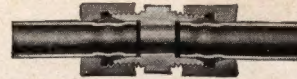
Close contact with the leading automotive and industrial manufacturers, and intelligent co-operation with the foremost engineers, have enabled us to keep Imperial Products always up to the minute in all details of design.



Imperial Compression Couplings


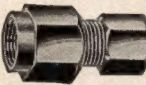

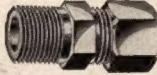


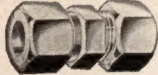


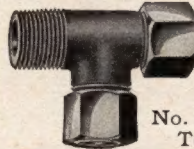
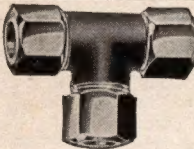




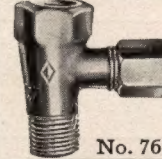
For Connecting Brass, Copper, Aluminum, Shelby or Bundy Tubing

"No Soldering or Flaring"



"The Standard of the Trade"

New and Attractive Standard Packages. Prices of Fittings shown below include Nuts and Sleeves.

Catalog Nos. and Description	O. D. of Tube	Iron Pipe Thread End	Standard Package Quantity	Price Per 100 Including Nuts and Sleeves	Catalog Nos. and Description	O. D. of Tube	Iron Pipe Thread End	Standard Package Quantity	Price Per 100 Including Nuts and Sleeves
 No. 60-F Sleeve	1/8"		100	\$ 2.00	 No. 67-F Female Coupling	3/16"	1/8"	15	\$ 32.00
	1/4"		100	2.50		1/2"	1/4"	15	32.00
	3/8"		100	2.00		3/4"	3/8"	15	40.00
	1/2"		100	2.00		1"	1/2"	15	42.00
	5/8"		100	2.50		1 1/4"	3/4"	10	72.00
	3/4"		100	3.50		1 1/2"	7/8"		114.00
	7/8"		25	6.50		2"	1"		176.00
	1"		25	10.50					
 No. 61-F Nut	1/8"		25	5.00	 No. 68-F Connection	1/8"	1/8"	25	14.00
	1/4"		25	7.00		1/4"	1/4"	25	15.00
	3/8"		25	5.50		1/2"	1/2"	50	17.00
	1/2"		50	6.00		3/4"	3/4"	25	22.00
	5/8"		50	8.00		1"	1"	50	20.00
	3/4"		25	10.00		1 1/4"	1 1/4"	25	25.00
	7/8"		25	18.00		1 1/2"	1 1/2"	15	31.00
	1"		25	21.00		2"	2"	15	34.00
 No. 181-D Nut	1/8"		25	7.00	 No. 69-F Elbow	1/8"	1/8"	25	24.00
	1/4"		25	7.50		1/4"	1/4"	25	25.00
	3/8"		50	8.00		1/2"	1/2"	50	26.00
	1/2"		50	10.50		3/4"	3/4"	25	31.00
	5/8"		25	13.50		1"	1"	50	32.00
	3/4"		12	24.50		1 1/4"	1 1/4"	25	33.00
	7/8"		12	31.50		1 1/2"	1 1/2"	15	46.00
	1"		12	31.50		2"	2"	15	51.00
 No. 62-F Union	1/8"		15	22.00	 No. 70-F Elbow	1/8"	1/8"	15	22.00
	1/4"		15	28.00		1/4"	1/4"	15	25.00
	3/8"		15	23.00		1/2"	1/2"	25	28.00
	1/2"		25	25.00		3/4"	3/4"	25	34.00
	5/8"		25	31.00		1"	1"	15	40.00
	3/4"		10	39.00		1 1/4"	1 1/4"	10	73.00
	7/8"		10	73.00		1 1/2"	1 1/2"	10	101.00
	1"		10	95.00					
 No. 63-F Check Valve	1/8"	1/8"	15	30.00	 No. 71-F Tee	1/8"	1/8"	15	32.00
	1/4"	1/4"	15	32.00		1/4"	1/4"	15	34.00
	3/8"	3/8"	15	36.00		1/2"	1/2"	15	40.00
	1/2"	1/2"	15	39.00		3/4"	3/4"	15	44.00
	5/8"	5/8"	15	52.00		1"	1"	15	57.00
	3/4"	3/4"	10	123.00		1 1/4"	1 1/4"	5	104.00
						1 1/2"	1 1/2"	5	158.00
						2"	2"		207.00
 No. 64-F Tee	1/8"		15	39.00	 No. 72-F Tee	1/8"	1/8"	15	32.00
	1/4"		15	40.00		1/4"	1/4"	15	34.00
	3/8"		25	44.00		1/2"	1/2"	15	40.00
	1/2"		25	48.00		3/4"	3/4"	15	44.00
	5/8"		15	66.00		1"	1"	15	57.00
	3/4"		5	120.00		1 1/4"	1 1/4"	5	104.00
	7/8"		5	180.00		1 1/2"	1 1/2"	5	158.00
	1"			251.00		2"	2"		210.00
 No. 65-F Elbow	1/8"		15	33.00	 No. 73-F Elbow Check Valve	1/8"	1/8"	15	37.00
	1/4"		15	35.00		1/4"	1/4"	15	40.00
	3/8"		25	36.00		1/2"	1/2"	15	43.00
	1/2"		25	45.00		3/4"	3/4"	15	52.00
	5/8"		15	48.00		1"	1"	10	66.00
	3/4"		10	87.00					
	7/8"		10	106.00					
	1"			190.00					
 No. 66-F Female Coupling	1/8"	1/8"	15	17.00	 No. 76-F Tee	1/8"	Male and Female	25	40.00
	1/4"	1/4"	15	18.00		1/4"	Male and Female	25	44.00
	3/8"	3/8"	15	20.00		1/2"	Male and Female	15	48.00
	1/2"	1/2"	15	22.00		3/4"	Male and Female	15	53.00
	5/8"	5/8"	15	34.00		1"	Male and Female		
	3/4"	3/4"	10	86.00		1 1/4"	Male and Female		
	7/8"	7/8"				1 1/2"	Male and Female		
	1"	1"				2"	Male and Female		

All standard package quantity orders are put up in attractive packages

IMPERIAL PRODUCTS

THE IMPERIAL BRASS MANUFACTURING COMPANY

CHICAGO, ILL., U. S. A.



Imperial S. A. E. Tube Couplings

For Connecting Brass and Copper Tubing


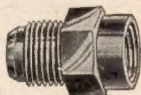
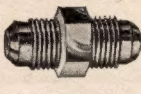


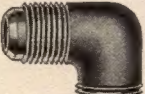




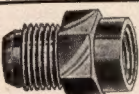
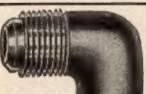
The Standard of the Trade



Showing Tubing Connected with Two 41-F S.A.E. Nuts and a 42-F S.A.E. Union

Special Sizes Made to Order

New and Attractive Standard Packages

Catalog Nos. and Description	Std. Lgth.	O. D. of Tube	Iron Pipe Thread End	Standard Package Quantity	Price Per 100 Without Nuts	Catalog Nos. and Description	O. D. of Tube	Iron Pipe Thread End	Standard Package Quantity	Price Per 100 Without Nuts
 No. 41-F Union Nut *Unless specified, long nut will be furnished.	1 1/16"	3/16"		25	\$ 11.00	 No. 47-F Female Coupling	1/4"	1/4"	15	\$ 24.00
	1 3/16"	3/8"		50	12.00		1/2"	1/2"	15	26.00
	1 1/2"	1/2"		50	*13.00		3/8"	3/8"	15	51.00
	1 3/4"	5/8"		50	15.00		1/2"	1/2"	10	55.00
	1 7/8"	3/4"		50	*17.00		3/4"	3/4"	10	73.00
	2"	7/8"		25	22.00					
	2 1/8"	1"		25	*25.00					
	2 1/4"	1 1/8"		10	34.00					
	2 1/2"	1 1/4"		10	40.00					
	2 3/4"	1 3/8"		10	*46.00					
 No. 42-F Union Coupling	1 1/8"	3/16"		25	18.00	 No. 48-F Half Union	1/8"	1/8"	15	12.00
	1 1/4"	1/4"		25	19.00		1/4"	1/4"	50	13.00
	1 1/2"	5/8"		25	23.00		1/2"	1/2"	25	22.00
	1 3/4"	3/4"		25	35.00		3/4"	3/4"	50	17.00
	1 7/8"	7/8"		25	35.00		1"	1"	25	24.00
	2"	1"		10	45.00		1 1/8"	1 1/8"	25	35.00
	2 1/8"	1 1/8"		10	55.00		1 1/4"	1 1/4"	25	32.00
	2 1/4"	1 1/4"		10	92.00		1 1/2"	1 1/2"	10	38.00
	2 3/4"	1 3/4"					1 3/8"	1 3/8"	10	45.00
	3"	2"			130.00		1 1/2"	1 1/2"		90.00
 No. 43-F Ball Check Valve	1/4"	1/4"	1/8"	25	31.00	 No. 49-F Elbow	3/16"	1/8"	15	19.00
	1/2"	1/2"	1/4"	25	35.00		1/4"	1/4"	50	20.00
	3/8"	3/8"	3/8"	25	48.00		1/2"	1/2"	25	29.00
	1/2"	1/2"	1/2"	10	57.00		3/4"	3/4"	50	23.00
	3/4"	3/4"	3/4"	10	68.00		1"	1"	25	35.00
							1 1/8"	1 1/8"	25	41.00
							1 1/4"	1 1/4"	25	44.00
							1 1/2"	1 1/2"	10	52.00
							1 3/8"	1 3/8"	10	60.00
							1 1/2"	1 1/2"		140.00
 No. 44-F Tee	1/4"			15	26.00	 No. 50-F Elbow	1/4"	1/4"	25	25.00
	1/2"			15	33.00		1/2"	1/2"	25	28.00
	3/8"			15	52.00		3/8"	3/8"	15	61.00
	1/2"			10	70.00		1"	1"	10	85.00
	3/4"			10	79.00		1 1/8"	1 1/8"	10	113.00
	1"				235.00		1 1/4"	1 1/4"		172.00
	1 1/8"				272.00		1 1/2"	1 1/2"		172.00
 No. 45-F Tee	1/4"	1/8"	1/8"	15	25.00	 No. 51-F Tee	1/4"	1/4"	15	27.00
	1/2"	1/2"	1/2"	15	32.00		1/2"	1/2"	15	33.00
	3/8"	3/8"	3/8"	15	52.00		3/8"	3/8"	15	50.00
	1/2"	1/2"	1/2"	10	75.00		1"	1"	10	74.00
	3/4"	3/4"	3/4"	10	88.00		1 1/8"	1 1/8"	10	81.00
	1"	1"	1"		226.00		1 1/4"	1 1/4"		226.00
	1 1/8"	1 1/8"	1 1/8"		255.00		1 1/2"	1 1/2"		254.00
 No. 46-F Female Coupling	1/4"	1/4"	1/8"	25	17.00	 No. 55-F Elbow	1/4"		25	24.00
	1/2"	1/2"	1/4"	25	20.00		1/2"		25	25.00
	3/8"	3/8"	3/8"	25	32.00		3/8"		15	37.00
	1/2"	1/2"	1/2"	10	43.00		1"		10	51.00
	3/4"	3/4"	3/4"	10	52.00		1 1/8"		10	55.00
	1"	1"	1"		112.00		1 1/4"			136.00
	1 1/8"	1 1/8"	1 1/8"		165.00		1 1/2"			156.00

SIZE OF S. A. E. THREAD

3/16" O. D. 3/8"x24	5/16" 1/2"x20	7/16" 11/16"x16	5/8" 7/8"x14
1/4" 7/16"x20	3/8" 5/8"x18	1/2" 3/4"x16	3/4" 1"x14

All standard package quantity orders are put up in attractive packages

for
Automobiles, Trucks, Trac-
tors, Buses, Oil Burners,
Air Compressors, Airplanes,
Machine Tools, wherever
tubing is used.

(VIBRATION PROOF)

(Pat. No. 1889778)

for
Copper, Shelby, Aluminum,
Bundy, Bundyweld, Ever-
dur, Monel and Steel Tubing

Imperial Hi-Duty Tube Couplings

Motors and machinery of all kinds are being manufactured to operate at higher speed than ever before. This increases the amount of vibration and causes more frequent breakage of the gas, oil and air lines.

The breakage of these tubing lines is caused not only by vibration but by the injury of the tubing due to type of fitting used.

The Imperial Hi-Duty Tube Coupling does not injure the tubing and prevents breakage caused by vibration.

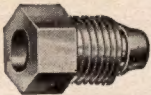


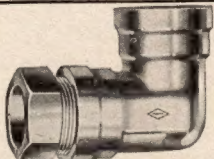

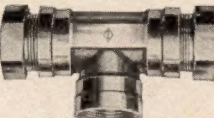


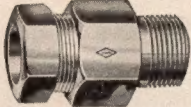
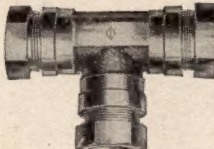
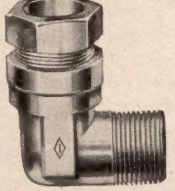
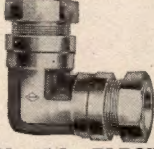
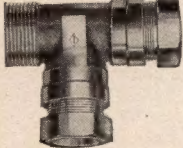
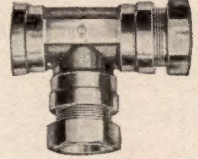
This is truly a Safety coupling as it eliminates the hazard and inconvenience caused by breakage of gas, air and oil lines. That is why this coupling is approved after tests by the Department of Commerce for use on Licensed Airplanes—where the vibration is severe.

It is easy to assemble (a two-piece coupling which does not require soldering or flaring).

It can be connected and reconnected at will and always reconnects tight.

The popular sizes of Elbows and Tees are made from Brass Forgings. The remainder from Bronze Castings. Rod Fittings from high Tensile Bronze.

For a positive leakproof connection, use this coupling. These outstanding features cost you no more.

	O. D. Tube	Size I. P. T.	Std. Pkg. Quantity	Price Per 100		O. D. Tube	Size I. P. T.	Std. Pkg. Quantity	Price Per 100
	1/8"	.....	25	\$ 7.70		1/8"	1/8"	15	\$38.50
No. 81-L—NUT	5/16"	.....	25	8.25		5/16"	1/8"	15	40.70
	3/4"	.....	50	10.30		3/4"	1/8"	25	45.30
	1/2"	.....	50	12.40		1/2"	1/8"	25	61.05
	3/8"	.....	25	18.70		3/8"	1/4"	15	88.00
	1/4"	.....	12	27.25		1/4"	3/8"	5	121.00
	1/2"	.....	12	33.45		1/2"	3/8"	5	165.00
	1/8"	.....	15	\$35.50		1/8"	1/8"	15	\$27.50
No. 82-L—UNION	5/16"	.....	15	36.50		5/16"	1/8"	15	29.70
	3/4"	.....	25	43.45		3/4"	1/8"	25	32.45
	1/2"	.....	25	53.10		1/2"	1/8"	25	40.70
	3/8"	.....	15	69.50		3/8"	1/4"	15	59.85
	1/4"	.....	10	79.35		1/4"	3/8"	10	99.85
	1/2"	.....	10	110.95		1/2"	3/8"	10	126.50
	1/8"	1/8"	15	\$34.10		1/8"	1/8"	15	\$44.00
No. 83-L—BALL CHECK VALVE	5/16"	1/8"	15	35.20		5/16"	1/8"	15	45.65
	3/4"	1/8"	15	38.50		3/4"	1/8"	15	50.05
	1/2"	1/8"	15	44.00		1/2"	1/8"	15	66.00
	3/8"	1/4"	15	57.20		3/8"	1/4"	15	92.40
	1/4"	3/8"	10	77.00		1/4"	3/8"	5	126.50
	1/2"	3/8"	10	132.00		1/2"	3/8"	5	170.50
	1/8"	1/8"	15	\$30.60		1/8"	1/8"	15	\$28.05
No. 86-L—FEMALE COUPLING	5/16"	1/8"	15	31.00		5/16"	1/8"	15	28.35
	3/4"	1/8"	15	33.00		3/4"	1/8"	15	30.80
	1/2"	1/8"	15	39.80		1/2"	1/8"	15	43.20
	3/8"	1/4"	15	49.90		3/8"	1/4"	15	55.00
	1/4"	3/8"	10	71.70		1/4"	3/8"	5	71.50
	1/2"	3/8"	10	105.40		1/2"	3/8"	5	96.80
	1/8"	1/8"	25	\$15.40		1/8"	.....	15	\$51.15
No. 88-L—CONNECTOR	5/16"	1/8"	25	17.95		5/16"	.....	15	52.80
	3/4"	1/8"	50	20.55		3/4"	.....	15	59.15
	1/2"	1/8"	25	25.30		1/2"	.....	15	74.95
	3/8"	1/4"	50	25.30		3/8"	.....	15	104.50
	1/4"	3/8"	25	31.70		1/4"	.....	5	136.40
	3/8"	3/8"	15	38.95		3/8"	.....	5	176.00
	1/2"	3/8"	10	61.60		1/2"	.....	5	
	1/2"	3/8"	10	81.40					
	1/8"	1/8"	25	\$24.20		1/8"	.....	15	\$41.80
No. 89-L—ELBOW	5/16"	1/8"	25	25.85		5/16"	.....	15	42.90
	3/4"	1/8"	50	28.35		3/4"	.....	15	45.05
	1/2"	1/8"	25	33.55		1/2"	.....	15	51.50
	3/8"	1/4"	50	33.55		3/8"	.....	15	72.05
	1/4"	3/8"	25	37.95		1/4"	.....	10	99.55
	3/8"	3/8"	15	52.95		3/8"	.....	10	121.00
	1/2"	3/8"	10	69.30		1/2"	.....	10	
	1/2"	3/8"	10	94.15					
	1/8"	1/8"	15	\$38.50		1/8"	1/8"	15	\$44.00
No. 91-L—TEE	5/16"	1/8"	15	40.70		5/16"	1/8"	15	45.65
	3/4"	1/8"	25	45.30		3/4"	1/8"	15	50.05
	1/2"	1/8"	25	61.05		1/2"	1/8"	15	66.00
	3/8"	1/4"	15	88.00		3/8"	1/4"	15	92.40
	1/4"	3/8"	5	121.00		1/4"	3/8"	5	126.50
	1/2"	3/8"	5	165.00		1/2"	3/8"	5	170.50

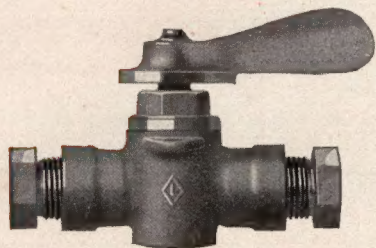
FACTS

Imperial Hi-Duty Couplings are listed and approved by the Underwriters' Laboratory, after vibration, hydrostatic and tensile tests. Laboratory tests show the Hi-Duty 500% to 1000% superior under vibratory stresses.

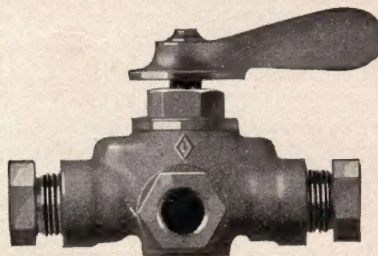
Hi-Duty Shut-off Cocks

These shut-off cocks are designed to eliminate leakage and seizing. The outstanding features are: Spring Tension on Packing Gland, Solid Bottom, Small Bearing Surface, Integral Bracket, and Light Weight.

Two-Way



Three-Way



Catalog No.	Tube Size Outside Diameter	Male Iron Pipe Thread	Female Iron Pipe Thread	Price Each
100-HD	1/8" x 1/8"			\$1.65
100-HD	1/8" x 1/4"			1.70
100-HD	1/4" x 1/4"			1.75
100-HD	1/4" x 1/2"			1.85
100-HD	1/2" x 1/2"			2.00
100-HD	1/2" x 3/4"			2.60
*101-HD	1/8" x 1/8"	1/8"		1.60
*101-HD	1/8" x 1/4"	1/8"		1.65
101-HD	1/4" x 1/4"	1/8"		1.70
101-HD	1/4" x 1/2"	1/8"		1.75
101-HD	1/2" x 1/2"	1/8"		1.75
101-HD	1/2" x 3/4"	1/8"		1.80
101-HD	3/4" x 3/4"	1/4"		1.85
*101-HD	1/2" x 1/2"	1/4"	1/4"	2.40
102-HD	1/8" x 1/8"	1/8"		1.70
102-HD	1/8" x 1/4"	1/8"		1.75
*102-HD	1/4" x 1/4"	3/8"	3/8"	1.90
103-HD	1/8" x 1/8"		1/8"	1.70
103-HD	1/4" x 1/4"		1/4"	1.85
*103-HD	1/2" x 1/2"	3/8"	3/8"	2.55
104-HD	1/8" x 1/8"		1/8" x 1/4"	1.70
104-HD	1/4" x 1/4"		1/4" x 1/4"	1.85
*104-HD	1/2" x 1/2"	3/8" x 3/8"	3/8" x 3/8"	2.55

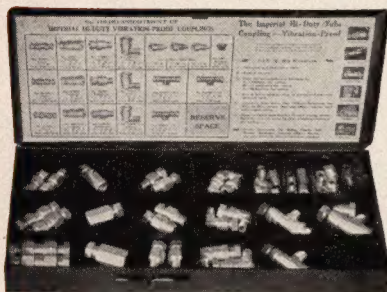
*Made to Order.

Catalog No.	Tube Size Outside Diameter	Male Iron Pipe Thread	Female Iron Pipe Thread	Price Each
105-HD	1/8" x 1/8" x 1/8"			\$2.10
105-HD	1/8" x 1/8" x 1/4"			2.20
105-HD	1/4" x 1/4" x 1/4"			2.35
105-HD	1/4" x 1/4" x 1/2"			2.50
105-HD	1/2" x 1/2" x 1/2"			2.75
105-HD	1/2" x 1/2" x 3/4"			4.00
*106-HD	1/8" x 1/8" x 1/8"	1/8"		2.05
*106-HD	1/8" x 1/8" x 1/4"	1/8"		2.15
*106-HD	1/4" x 1/4" x 1/4"	1/8"		2.25
*106-HD	1/4" x 1/4" x 1/2"	1/8"		2.35
*106-HD	1/2" x 1/2" x 1/2"	1/8"		2.40
*106-HD	1/2" x 1/2" x 3/4"	1/8"		2.45
*106-HD	3/4" x 3/4" x 3/4"	1/4"		2.60
*106-HD	1/2" x 1/2" x 1/2"	1/4"	1/4"	3.70
*107-HD	1/8" x 1/8" x 1/8"		1/8"	2.30
*107-HD	1/8" x 1/8" x 1/4"		1/8"	2.35
*107-HD	1/4" x 1/4" x 1/4"		1/8"	2.40
*107-HD	1/4" x 1/4" x 1/2"		1/8"	2.60
*107-HD	1/2" x 1/2" x 1/2"		1/4"	2.45
*107-HD	1/2" x 1/2" x 3/4"		1/4"	2.65
*107-HD	3/4" x 3/4" x 3/4"		1/4"	2.75
*107-HD	1/2" x 1/2" x 1/2"		3/8"	3.80
*108-HD	1/8" x 1/8" x 1/8"		1/8" x 1/8" x 1/8"	2.20
*108-HD	1/4" x 1/4" x 1/4"		1/4" x 1/4" x 1/4"	2.50
*108-HD	1/2" x 1/2" x 1/2"		1/2" x 1/2" x 1/2"	3.75
*109-HD	1/8" x 1/8" x 1/8"	1/8" x 1/8" x 1/8"		2.15
*109-HD	1/4" x 1/4" x 1/4"	1/4" x 1/4" x 1/4"		2.40
*109-HD	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"		3.50

*Made to order.

In ordering, first specify left end, then right, and branch last.

No. 110-L HI-DUTY Assortment



Size 15 1/4" x 7 3/4" x 1 1/2"

This new assortment of Hi-Duty Couplings has been especially designed for garages, dealers, service stations and small fleet owners to replace broken fuel, oil and air lines with the Hi-Duty Vibration Proof Tube Coupling.

The assortment consists of the popular types, in the popular sizes, and are packed in a strong steel cabinet.

There is a compartment for each fitting, and the chart on the inside of the cover shows a picture of each fitting with the size and retail price.

Contents

6 81L 1/4" O. D. Nuts
6 81L 5/16" O. D. Nuts
2 81L 3/8" O. D. Nuts
2 82L 1/4" O. D. Unions
2 82L 5/16" O. D. Unions
2 82L 3/8" O. D. Unions

1 86L 1/4 x 1/8" Female Coupling
1 86L 5/16 x 1/8" Female Coupling
1 86L 3/8 x 1/4" Female Coupling
2 88L 1/4 x 1/8" Connector
2 88L 5/16 x 1/8" Connector
2 88L 3/8 x 1/4" Connector

2 89L 1/4 x 1/8" Elbow
2 89L 5/16 x 1/8" Elbow
2 89L 3/8 x 1/4" Elbow
1 92L 1/4 x 1/8" Tee
1 92L 5/16 x 1/8" Tee
1 92L 3/8 x 1/4" Tee
4 110B 1/4 x 1/8" Bushings

Total—42 Couplings

No. 110-L. Tube Coupling Assortment Complete. Each.....\$13.00

Imperial Brass Pipe Fittings

"The Standard of the Trade"—Bright Brass Finish—Iron Pipe Thread



No. 100-B
Elbow

Size	Std. Pkg., Qty.	Price Per 100
1/8"	25	\$19.00
1/4"	15	27.00
3/8"	10	54.00
1/2"	5	86.00



No. 101-B
Tee

Size	Std. Pkg., Qty.	Price Per 100
1/8"	25	\$ 27.00
1/4"	15	37.00
3/8"	10	60.00
1/2"	5	110.00



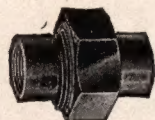
No. 102-B
Cross

Size	Std. Pkg., Qty.	Price Per 100
1/8"	15	\$ 42.00
1/4"	15	51.00
3/8"	5	77.00
1/2"	5	118.00



No. 103-B
Coupling

Size	Std. Pkg., Qty.	Price Per 100
1/8"	25	\$17.00
1/4"	15	29.00
3/8"	15	43.00
1/2"	10	76.00



No. 104-B
Union

Size	Std. Pkg., Qty.	Price Per 100
1/8"	10	\$ 73.00
1/4"	10	103.00
3/8"	5	118.00
1/2"	..	153.00



No. 108-B
Cap

Size	Std. Pkg., Qty.	Price Per 100
1/8"	15	\$16.00
1/4"	15	22.00
3/8"	10	31.00
1/2"	10	46.00



No. 109-B
Plug

Size	Std. Pkg., Qty.	Price Per 100
1/8"	50	\$11.00
1/4"	25	16.00
3/8"	15	25.00
1/2"	15	29.00



No. 110-B
Bushing

Size	Std. Pkg., Qty.	Price Per 100
1/4 x 1/8"	50	\$14.00
3/8 x 1/4"	25	20.00
1/2 x 3/8"	15	20.00
3/4 x 1/2"	15	30.00
1 x 3/4"	15	30.00



No. 111-B
Lock Nut

Size	Std. Pkg., Qty.	Price Per 100
1/8"	25	\$13.00
1/4"	15	15.00
3/8"	15	24.00
1/2"	15	31.00



No. 112-B
Close Nipple

Size	Std. Pkg., Qty.	Price Per 100
1/8"	25	\$13.00
1/4"	15	18.00
3/8"	15	30.00
1/2"	15	43.00



No. 113-B
Long Nipple

Size	Length	Std. Pkg., Qty.	Price Per 100
1/8"	1 1/2"	25	\$18.00
1/4"	1 1/2"	15	24.00
3/8"	1 1/2"	15	32.00
1/2"	1 1/2"	10	50.00
3/8"	2"	25	22.00
1/4"	2"	15	29.00
1/8"	2"	15	39.00
1/2"	2"	10	55.00
3/8"	2 1/2"	25	25.00
1/4"	2 1/2"	15	33.00
1/8"	2 1/2"	15	42.00
1/2"	2 1/2"	10	62.00
3/8"	3"	25	27.00
1/4"	3"	15	36.00
1/8"	3"	15	50.00
1/2"	3"	10	68.00
3/8"	3 1/2"	25	32.00
1/4"	3 1/2"	15	41.00
1/8"	3 1/2"	10	56.00
1/2"	3 1/2"	10	75.00



No. 116-B
Street Elbow

Size	Std. Pkg., Qty.	Price Per 100
1/8"	25	\$21.00
1/4"	15	29.00
3/8"	15	48.00
1/2"	10	65.00



No. 117-B
Plug

Size	Std. Pkg., Qty.	Price Per 100
1/8"	50	\$ 9.00
1/4"	25	13.75



No. 118-B
Wing Plug

Size	Std. Pkg., Qty.	Price Per 100
1/8"	25	\$20.00
1/4"	15	23.00
3/8"	15	30.00



No. 119-B
Reducing Bushing

Size Fem. Thrd.	Size Male Thrd.	Std. Pkg., Qty.	Price Per 100
1/4"	1/8"	25	\$23.00
3/8"	1/4"	15	34.00
1/2"	3/8"	15	44.00



No. 120-B
Adapter

Size Fem. Thrd.	Size Male Thrd.	Std. Pkg., Qty.	Price Per 100
1/8"	1/8"	25	\$21.00
1/4"	1/8"	25	23.00
3/8"	1/4"	15	34.00
1/2"	3/8"	15	44.00



No. 121-B
Plug

Size	Std. Pkg., Qty.	Price Per 100
1/8"	25	\$13.00
1/4"	25	16.00
3/8"	15	22.00
1/2"	15	33.00



No. 122-B
Hex Nipple

Size	Std. Pkg., Qty.	Price Per 100
1/8 x 1/8"	25	\$15.00
1/4 x 1/4"	15	20.00

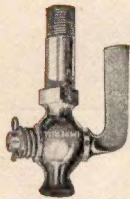


No. 123-B
Reducing Nipple

Size	Std. Pkg., Qty.	Price Per 100
1/4 x 1/8"	25	\$23.00
3/8 x 1/4"	15	34.00

All standard package quantity orders are put up in attractive packages

Imperial Drain Locks



Nos. 20-E and 21-E
DRAIN COCKS
1/4" Shank

Cat. No.	20-E	21-E
Iron pipe thread	1/8"	1/4"
Opening	1/2"	3/4"
Standard pkg. qty.	25	25
Price each	\$0.90	\$1.00



Nos. 37-E and 38-E
DRAIN COCKS
Tee Handle

Cat. No.	37-E	38-E
Iron pipe thread	1/8"	1/4"
Opening	1/2"	3/4"
Standard pkg. qty.	50	25
Price each	\$0.45	\$0.65



Nos. 41-E to 44-E
DRAIN COCKS
Lever Handle

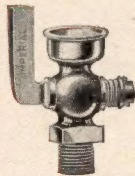
Cat. No.	41-E	42-E	43-E	44-E
Opening	1/4"	3/8"	1/2"	3/4"
Iron pipe thread	1/8"	1/4"	3/8"	1/2"
Std. pkg. Qty.	50	25	15	15
Price each	\$0.48	\$0.65	\$1.00	\$1.20



Nos. 200-E to 203-E
DRAIN COCKS
Needle Seat

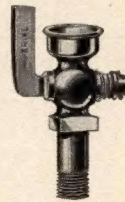
Cat. No.	200-E	201-E	202-E	203-E
Iron P.T.	1/8"	1/4"	3/8"	1/2"
Op'n'g	1/2"	3/8"	1/2"	3/4"
Std. Pkg. Qty.	25	15	15	15
Price ea.	\$0.35	\$0.50	\$1.35	\$1.45

Priming Cups



Nos. 5-E and 6-E
SHORT SHANK

Cat. No.	5-E	6-E
Iron pipe thread	1/8"	1/4"
Diameter of bowl	5/8"	3/4"
Standard pkg. quantity	20	20
Price each	\$0.60	\$0.70



Nos. 7-E and 8-E
1/4" SHANK

Cat. No.	7-E	8-E
Iron pipe thread	1/8"	1/4"
Diameter of bowl	5/8"	3/4"
Standard pkg. quantity	20	20
Price each	\$0.65	\$0.70



Nos. 11-E and 12-E
90° ANGLE

Cat. No.	11-E	12-E
Iron pipe thread	1/8"	1/4"
Diameter of bowl	5/8"	3/4"
Standard pkg. quantity	20	20
Price each	\$0.85	\$0.90

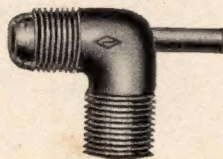
Fittings for Windshield Wipers and Oilers

(Prices per 100)



No. 90-F

1/4" ODCC x 1/8"	
I.P.T.	\$42.00-C
5/16" ODCC x 1/8"	
I.P.T.	44.00-C



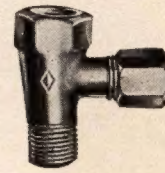
No. 90-F SAE

1/4" O.D.S.A.E. x 1/8"	
I.P.T.	\$36.00-C
5/16" O.D.S.A.E. x 1/8"	
I.P.T.	37.00-C



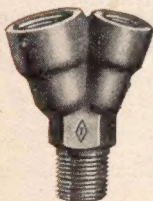
No. 39-F

1/8" I.P.T. Male	1/8"
I.P.T.	
Female	\$36.00-C



No. 76-F

O.D. of Tube	Male & Female Thread	Price per 100
1/8"	1/8" I.P.T.	\$40.00
3/16"	1/8" I.P.T.	44.00
1/4"	1/8" I.P.T.	48.00
5/16"	1/8" I.P.T.	53.00



No. 76-Y

Cat. No.	Outside Diam. of Tube	Iron Pipe Thread	Body Only Price per 100
76-Y	3/16" O.D. x 5/16" O.D.	1/8"	\$43.50
76-Y	3/8" O.D. x 5/16" O.D.	1/8"	44.50
76-Y	3/16" O.D. x 5/16" O.D.	1/8"	44.00

The 76-Y Fitting is threaded to take No. 181-D Nut.



No. 87-F

FORD CARBURETOR NUT	
1/4 O.D.	\$12.50-C



No. 181-D

O.D. of Tube	Price per 100
1/8"	\$ 7.00
3/16"	7.50
1/4"	8.00
5/16"	10.50
3/8"	13.50
1/2"	24.05
3/4"	31.50

IMPERIAL COPPER TUBING

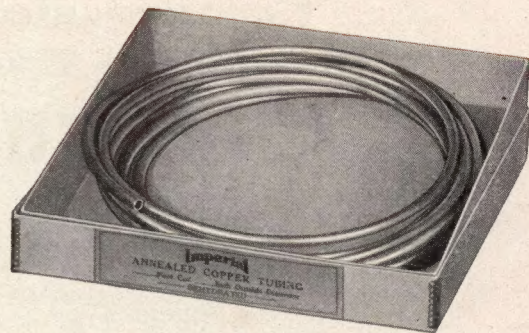
for
Automotive and General Use

Packed 25 Foot Coil to a Carton

Imperial Seamless Soft Copper Tubing is bright annealed and cold drawn to size from the best quality of copper. Is of uniform temper having smooth exterior and interior surfaces, is free from scale, seams, slivers and other finishing defects.

The quantity of cartons—of each size—in a single shipment determines the quoted price.

Prices listed below are price per carton—25 foot coil in carton.



DEOXIDIZED SEAMLESS SOFT COPPER TUBING

The quantity of cartons—of each size—in a single shipment determine the quoted price.

Tube	1/8" O.D. x .032" Wall	3/16" O.D. x .032" Wall	1/4" O.D. x .032" Wall	5/16" O.D. x .032" Wall	3/8" O.D. x .032" Wall
Tube Wts. per Coil	.9 Pounds	1.525 Pounds	2.125 Pounds	2.75 Pounds	3.35 Pounds
	No. Cartons Price	No. Cartons Price	No. Cartons Price	No. Cartons Price	No. Cartons Price
	1 to 11 12 to 22	1 to 6 7 to 13	1 to 5 6 to 9	1 to 4 5 to 7	1 to 3 4 to 6
	\$0.74 .68	\$0.93 .84	\$1.05 .95	\$1.31 1.17	\$1.57 1.40

Tube	1/2" O.D. x .032" Wall	5/8" O.D. x .032" Wall	3/4" O.D. x .032" Wall	7/8" O.D. x .032" Wall	1" O.D. x .032" Wall
Tube Wts. per Coil	3.95 Pounds	4.55 Pounds	5.775 Pounds	7.0 Pounds	9.05 Pounds
	No. Cartons Price	No. Cartons Price	No. Cartons Price	No. Cartons Price	No. Cartons Price
	1 to 2 3 to 5	1 to 2 3 to 4	1 to 2 3 to 4	1 to 2 3 to 4	1 to 2 3 to 4
	\$2.00 1.78	\$2.10 1.87	\$2.78 2.46	\$3.26 2.88	\$4.13 3.64

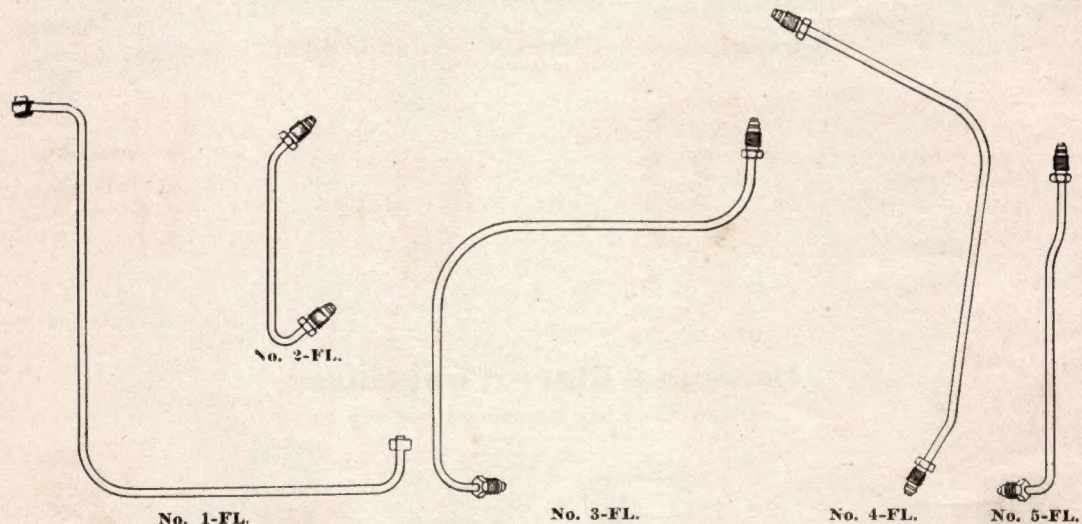
NOTE: Guaranteed within commercial tolerance.

Net prices—Prices in larger quantities on request.

IMPERIAL COPPER TUBING FUEL LINES

For Chevrolet and Ford Cars

These new Fuel Lines are for replacements on older model Chevrolet and Ford cars. They are made from seamless annealed copper tubing, bent to shape and furnished complete with couplings ready for installation. This makes it a very simple matter to replace the defective fuel lines on the models of cars listed below.



No. 1-FL.

No. 2-FL.

No. 3-FL.

No. 4-FL.

No. 5-FL.

Bent to Shape and Complete with Couplings

- Chevrolet 835789—No. 1-FL Gasoline line connects fuel pump to carburetor. All 6 cylinder models 1929-30-31. List price per hundred.....\$35.00
- Ford B-9369—No. 2-FL Gasoline line connects fuel pump to carburetor. For 4-cylinder model B-1932-33. List price, per hundred.....\$20.00
- Ford A-9240-B—No. 3-FL Gasoline line connects sediment bowl on dash to carburetor. For Ford A and AA 1928-29-30 and early 1931. List price, per hundred.....\$25.00
- Ford A-9240-C—No. 4-FL Gasoline line connects shut-off valve on gas tank with carburetor. For Ford A and AA. Late 1931. List price, per hundred.....\$25.00
- Ford 18-9369-AR—No. 5-FL Gasoline line connects fuel pump to carburetor. For V-8 Model 18. Early 1932. List price, per hundred.....\$25.00
- Wrapped 25 lines of a number in a package.....\$25.00

Compression Couplings for Air Brakes on Trucks and Motor Coaches



No. 60-F SLEEVE

O.D. of Tube	List Price Per 100
1/4"	\$ 2.00
5/16"	2.50
3/8"	3.50
1/2"	10.50
3/4"	21.00
1"	46.00



No. 161-F NUT

O.D. of Tube	List Price Per 100
1/4"	\$14.00
5/16"	19.80
3/8"	27.50
1/2"	50.00
3/4"	105.00
1"	150.00



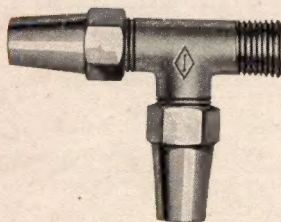
No. 162-F UNION

O.D. of Tube	List Price
1/4"	\$41.00
5/16"	54.60
3/8"	74.00
1/2"	155.00
3/4"	340.00



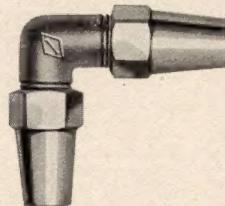
No. 168-F CONNECTOR

O.D. of Tube	Pipe Thread	List Price Per 100
1/4"	1/8"	\$25.00
5/16"	1/8"	30.00
3/8"	1/8"	31.80
1/2"	1/8"	36.80
3/8"	1/4"	48.50
1/2"	1/4"	52.00
3/4"	1/4"	102.00
1"	1/4"	201.50
1"	1"	475.00



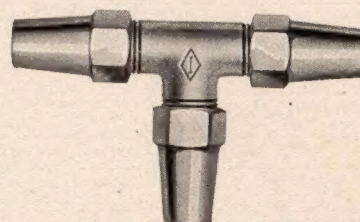
No. 171-F TEE

O.D. of Tube	Pipe Thread	List Price Per 100
1/4"	1/8"	\$56.00
5/16"	1/8"	67.60
3/8"	1/8"	92.00
1/2"	3/8"	247.50



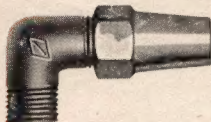
No. 165-F ELBOW

O.D. of Tube	List Price Per 100
1/4"	\$52.00
5/16"	68.60
3/8"	83.00
1/2"	164.00



No. 164-F TEE

O.D. of Tube	List Price Per 100
1/4"	\$68.00
5/16"	83.40
3/8"	118.50
1/2"	267.00
3/4"	550.50



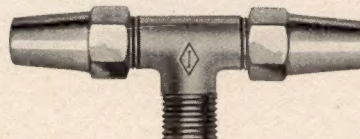
No. 169-F ELBOW

O.D. of Tube	Pipe Thread	List Price Per 100
1/4"	1/8"	\$34.00
5/16"	1/8"	39.00
3/8"	1/8"	43.80
1/2"	1/4"	52.50
3/4"	1/2"	63.00
1"	3/4"	66.00
1 1/2"	1"	102.00



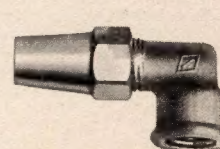
No. 166-F FEMALE COUPLING

O.D. of Tube	Pipe Thread	List Price Per 100
1/4"	1/8"	\$25.00
5/16"	1/8"	27.50
3/8"	1/8"	33.80
1/2"	1/4"	51.80
3/4"	3/8"	54.50
1"	1/2"	57.00
1 1/2"	3/4"	115.00



No. 172-F TEE

O.D. of Tube	Pipe Thread	List Price Per 100
1/4"	1/8"	\$56.00
5/16"	1/8"	67.60
3/8"	1/8"	92.00
1/2"	3/8"	247.50



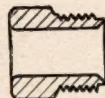
No. 170-F ELBOW

O.D. of Tube	Pipe Thread	List Price Per 100
1/4"	1/8"	\$36.00
5/16"	1/8"	45.80
3/8"	1/8"	51.50
1/2"	1/4"	57.50
3/4"	3/8"	130.00

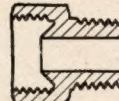
Inverted Flare Couplings (Also Showing Sectional Views)



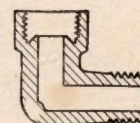
No. 41 W NUT



No. 48-W CONNECTOR



No. 49-W ELBOW



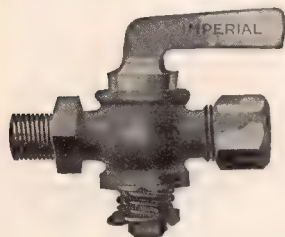
O.D. of Tube	List Price Per 100
1/16"	\$ 8.25
1/8"	10.30
1/16"	12.38
3/16"	18.70

O.D. of Tube	List Price Per 100
1/16"	\$ 9.68
1/8"	11.50
1/16"	12.92
3/16"	20.24

O.D. of Tube	List Price Per 100
1/16"	\$17.60
1/8"	18.02
1/16"	21.17
3/16"	34.25

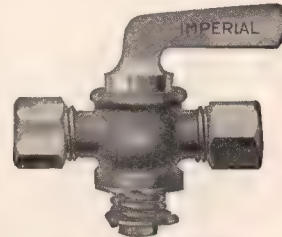
Shut-Off Cocks

Each plug is individually ground into a perfect seat and held tight by a coiled spring at the bottom. This is the reason that Imperial Shut-off Cocks are guaranteed to be gasoline tight and open and close at a slight turn of the lever handle. The square or hex gives a broad bearing for the wrench.



Nos. 27-EF to 57-EF

Cat. No.	Outside Diam. of Tubing	Iron Pipe Thread	Price Each
27-EF	1/4"	1/8"	\$1.30
227-EF	1/4"	1/4"	1.40
29-EF	5/16"	1/8"	1.30
229-EF	5/16"	1/4"	1.40
57-EF	3/8"	1/4"	1.45
28-EF	1/4"	...	1.30
30-EF	5/16"	...	1.40
58-EF	3/8"	...	1.70



Nos. 28-EF to 58-EF

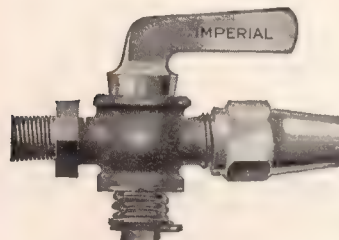


Nos. 76-EF and 75-EF

Cat. No.	Outside Diam. of Tubing	Iron Pipe Thread	Price Each
76-EF	1/4"	1/8"	\$1.05
75-EF	5/16"	1/8"	1.10
89-EF	1/4"	1/8"	1.45
79-EF	5/16"	1/8"	1.55

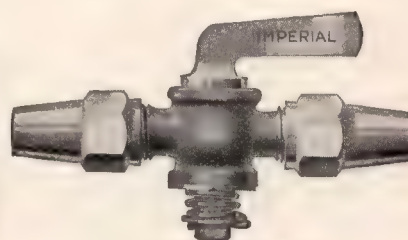


Nos. 79-EF and 89-EF



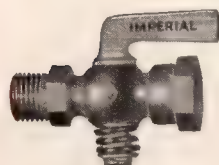
Nos. 27-SAE to 57-SAE

Cat. No.	Outside Diam. of Tubing	Iron Pipe Thrd.	Price Each
27-SAE	1/4"	1/8"	\$1.20*
227-SAE	1/4"	1/4"	1.30*
29-SAE	5/16"	1/8"	1.20*
229-SAE	5/16"	1/4"	1.40*
57-SAE	3/8"	1/4"	1.50*
28-SAE	1/4"	...	1.25*
30-SAE	5/16"	...	1.30*
58-SAE	3/8"	...	1.50*

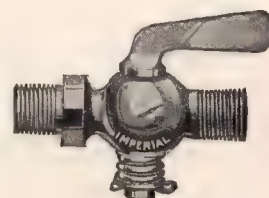
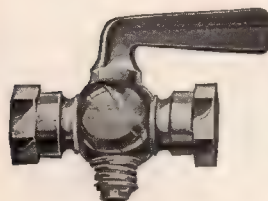


Nos. 28-SAE to 58-SAE

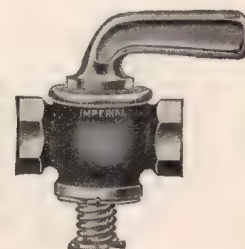
*Prices do not include S.A.E. Nuts. If nuts are desired, be sure to specify "with nuts."

Nos. 48-E and 49-E
Male and Female
Iron Pipe Thread

Cat. No.	Male Iron Pipe Thread	Female Iron Pipe Thread	Price Each
48-E	1/8"	1/8"	\$0.98
49-E	1/4"	1/4"	1.20
76-E	1/8"x1/8"	...	.98
77-E	1/4"x1/4"	...	1.25

Nos. 76-E and 77-E
Double Male
Iron Pipe ThreadNos. 31-E and 32-E
Double Female
Iron Pipe Thread

Cat. No.	Female Iron Pipe Thread	Price Each
31-E	1/8"x1/4"	\$1.05
32-E	1/4"x1/4"	1.20
39-E	1/4"x1/4"	1.75
40-E	3/8"x3/8"	2.30

Nos. 39-E and 40-E
Double Female
Iron Pipe Thread

Shut-Off Needle Valves

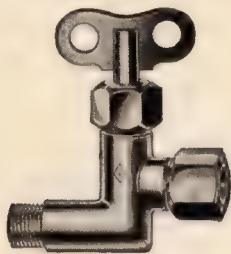
Furnished in Bright Brass Finish.

Guaranteed Tight—Non-Leakable—Less Costly.

Many engineers consider it superior to the ground-in plug type of valve.



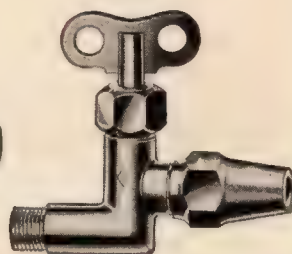
Nos. 103-EF to 303-EF



Nos. 168-EF to 170-EF



Nos. 103-SAE to 303-SAE



Nos. 168-SAE to 170-SAE

Cat. No.	Outside Diam. Tubing	Iron Pipe Thread	Price Each
103-EF	1/4"	1/8"	\$0.90
203-EF	3/8"	1/4"	1.05
204-EF	1/2"	3/8"	1.40
303-EF	5/8"	1/2"	1.55
168-EF	3/8"	1/4"	1.05
169-EF	1/2"	3/8"	1.20
369-EF	5/8"	1/2"	1.60
170-EF	3/4"	5/8"	1.65

Cat. No.	Outside Diam. Tubing	Iron Pipe Thread	Price Each
103-SAE	1/4"	1/8"	\$1.05*
203-SAE	3/8"	1/4"	1.20*
204-SAE	1/2"	3/8"	1.30*
303-SAE	5/8"	1/2"	1.45*
168-SAE	3/8"	1/4"	1.00*
169-SAE	1/2"	3/8"	1.05*
369-SAE	5/8"	1/2"	1.30*
170-SAE	3/4"	5/8"	1.35*

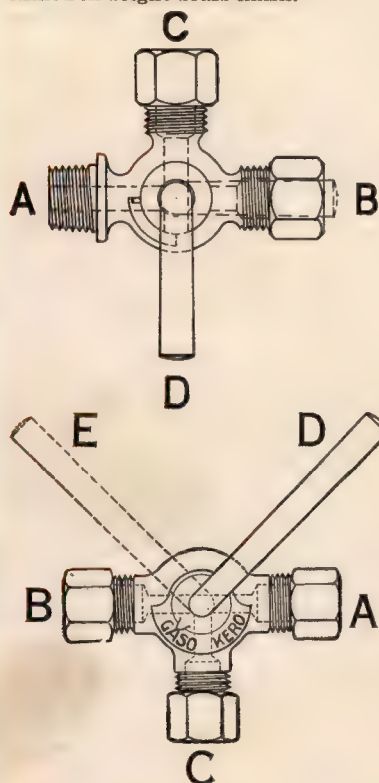
*Prices of the above valves do not include nuts.

THREE WAY COCKS

These cocks are especially designed for motors using two fuels—ordinary, gasoline for starting, and kerosene after the motor is sufficiently warmed up.

They are also used on trucks and busses having two gasoline tanks which is required by law in certain states.

The keys or plugs of these cocks are carefully ground into the body and have phosphor bronze springs which take up any wear that may occur in the plug, making them absolutely tight and non-leaking. Furnished in bright brass finish.



Cat. No.	A	B	C	Price Each
60-EF	1/8" I.P.T.	1/4" O.D.	1/4" O.D.	\$1.85
61-EF	1/8" I.P.T.	3/8" O.D.	3/8" O.D.	2.07
61-EF	1/4" I.P.T.	1/2" O.D.	1/2" O.D.	2.07
112-EF	1/4" I.P.T.	1/2" O.D.	1/4" I.P.T.	2.95

Flow is from "A" to "B" or from "A" to "C".

Cat. No.	A	B	C	Price Each
111-EF	5/8" O.D.	5/8" O.D.	1/8" I.P.T.	\$2.55
111-EF	3/8" O.D.	5/8" O.D.	1/4" I.P.T.	2.55
116-EF	5/8" O.D.	5/8" O.D.	5/8" O.D.	2.75
117-EF	1/4" O.D.	1/4" O.D.	1/8" I.P.T.	2.35
120-EF	1/4" O.D.	1/4" O.D.	1/4" O.D.	2.45
121-EF	3/8" O.D.	3/8" O.D.	3/8" O.D.	3.10

When handle is in "D" position flow is from "B" to "C". When in "E" position flow is from "A" to "C".

To shut off place handle in a vertical position.

Gasoline Valves
Has bronze body and fluted metal hand wheels.



No. 98-E and 99-E

Cat. No.	Iron Pipe Thread	Price Each
98-E	1/8"	\$1.40
99-E	1/4"	1.55



No. 96-E
No. 96-E 1/4"
Female Iron Pipe Thread.
Price, each \$2.60.

Coupling Assortments

These Tube Coupling Assortments are designed for dealers, garages, service stations, hardware stores and small manufacturers.

They are for replacing fuel, oil and air line couplings on automobiles trucks tractors, buses, oil burners, etc.

The most popular patterns and sizes are packed in a strong and neat steel box.

The box has separate compartments for each pattern and size of coupling and in addition has a chart on the inside cover showing a picture of the coupling that goes into each compartment together with the size and list price.

This makes it an easy matter to fill, recheck your stock and reorder.

No. 110-F

Dealer's Handy Assortment Imperial Compression Couplings



Size 15 $\frac{1}{4}$ "x7 $\frac{3}{4}$ "x1 $\frac{1}{2}$ "
Weight, 7 $\frac{1}{4}$ lbs.

No. 110-F Handy Assortment consist of:

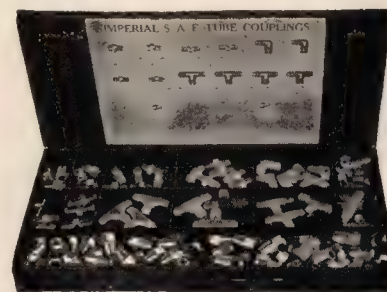
Quantity	Article
12—No. 60-Fx $\frac{1}{4}$ "	Sleeves
12—No. 60-Fx $\frac{5}{16}$ "	Sleeves
6—No. 61-Fx $\frac{1}{4}$ "	Nuts
6—No. 61-Fx $\frac{5}{16}$ "	Nuts
3—No. 62-Fx $\frac{1}{4}$ "	Unions
3—No. 62-Fx $\frac{5}{16}$ "	Unions
3—No. 66-Fx $\frac{1}{4}$ "	Bushings
3—No. 66-Fx $\frac{5}{16}$ "	Bushings
8—No. 68-Fx $\frac{1}{4}$ "	Connectors
8—No. 68-Fx $\frac{5}{16}$ "	Connectors
3—No. 68-F $\frac{5}{16}$ "x $\frac{1}{4}$ "	Connectors
8—No. 69-Fx $\frac{1}{4}$ "	Elbows
8—No. 69-Fx $\frac{5}{16}$ "	Elbows
3—No. 69-F $\frac{5}{16}$ "x $\frac{1}{4}$ "	Elbows
3—No. 70-Fx $\frac{1}{4}$ "	Elbows
3—No. 70-Fx $\frac{5}{16}$ "	Elbows
2—No. 71-Fx $\frac{1}{4}$ "	Tees
2—No. 71-Fx $\frac{5}{16}$ "	Tees
3—No. 72-Fx $\frac{1}{4}$ "	Tees
3—No. 72-Fx $\frac{5}{16}$ "	Tees

Total—102 Couplings

Cat. No.	Each
110-F Compression Coupling Assortment, complete	\$19.70

No. 115-F

Dealer's Handy Assortment Imperial S. A. E. Tube Couplings



Size 15 $\frac{1}{4}$ "x7 $\frac{3}{4}$ "x1 $\frac{1}{2}$ "
Weight, 8 lbs.

No. 115-F Handy Assortment consists of:

Quantity	Article
36—41-Fx $\frac{1}{4}$ "	Nuts
36—41-Fx $\frac{5}{16}$ "	Nuts
3—42-Fx $\frac{1}{4}$ "	Unions
3—42-Fx $\frac{5}{16}$ "	Unions
3—44-Fx $\frac{1}{4}$ "	Tees
3—44-Fx $\frac{5}{16}$ "	Tees
3—45-Fx $\frac{1}{4}$ "	Tees
3—45-Fx $\frac{5}{16}$ "	Tees
3—46-Fx $\frac{1}{4}$ "	Female Couplings
3—46-Fx $\frac{5}{16}$ "	Female Couplings
6—48-Fx $\frac{1}{4}$ "	Half Union Couplings
6—48-Fx $\frac{5}{16}$ "	Half Union Couplings
6—49-Fx $\frac{1}{4}$ "	Elbows
6—49-Fx $\frac{5}{16}$ "	Elbows

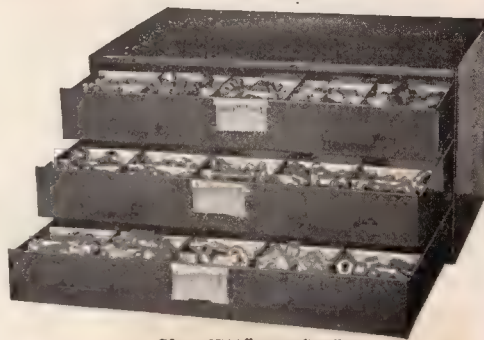
Total—120 Couplings

Cat. No.	Each
115-F S. A. E. Assortment, complete	\$21.00

"IDEAL" Three-Drawer Coupling Assortment

An attractive and strongly built three-drawer steel cabinet, with one drawer filled with compression couplings, another with S. A. E. Couplings and the third with shut-off cocks, drain cocks, priming cups and pipe fittings, all in the most popular types and sizes.

Each drawer has adjustable dividers so that you can regulate the size of each compartment and a label is furnished for each divider, showing a picture of the fitting in the compartment, the size and list price.



Size 17 1/4" x 11 3/4" x 9"
Weight, 55 lbs.

CONTENTS

25 60F 1/8" Sleeves	6 69F 1/8" Elbows	4 27EF Shut Off Cocks
25 60F 1/8" Sleeves	20 69F 1/4" Elbows	4 29EF Shut Off Cocks
100 60F 1/4" Sleeves	20 69F 1/2" Elbows	2 57EF Shut Off Cocks
100 60F 1/2" Sleeves	12 69F 3/8" Elbows	3 31E Shut Off Cocks
25 60F 3/8" Sleeves	20 41F 1/4" Nuts	3 31E Shut Off Cocks
12 61F 1/8" Nuts	20 41F 1/2" Nuts	3 76E Shut Off Cocks
12 61F 1/8" Nuts	12 41F 3/8" Nuts	3 27SAE Shut Off Cocks
50 61F 1/4" Nuts	6 42F 1/4" Unions	3 29SAE Shut Off Cocks
50 61F 1/2" Nuts	6 42F 1/2" Unions	2 57SAE Shut Off Cocks
12 61F 3/8" Nuts	6 42F 3/8" Unions	10 103B 1/8" Couplings
12 62F 1/4" Unions	12 48F 1/4" Half Unions	5 103B 1/4" Couplings
12 62F 1/2" Unions	12 48F 1/2" Half Unions	10 109B 1/8" Plugs
6 62F 3/8" Unions	6 48F 3/8" Half Unions	5 109B 1/4" Plugs
6 68F 1/8" Connectors	12 49F 1/4" Elbows	10 110B 1/4" x 1/8" Bushings
6 68F 1/8" Connectors	12 49E 1/8" Elbows	5 110B 3/8" x 1/4" Bushings
20 68F 1/4" Connectors	6 49F 3/8" Elbows	10 112B 1/8" Nipples
20 68F 1/2" Connectors	10 41E Drain Cock	5 112B 1/4" Nipples
12 68F 3/8" Connectors	5 42E Drain Cock	6 116B 1/8" Street Elbows
6 69F 1/8" Elbows	4 7E Priming Cups	6 119B 1/4" x 1/8" Reducing Couplings

No. 124-F "Ideal" Assortment (815 Fittings) \$140.00 Each
 Dealer's Price 70.00 Each
 Cabinet Only 7.95 Each



Size 15 1/4" x 7 3/4" x 1 1/4"
Weight, 11 lbs.

All Purpose Assortment

This is a very popular assortment for any garage, repair shop, hardware and auto supply stores.

The parts contained in this assortment are the popular compression couplings, pipe fittings and priming cups and drain cocks in the most popular sizes.

The chart on the inside of the cover shows a picture of each fitting, size and retail price.

CONTENTS

10-60-Fx 1/8" Sleeve	5-69-Fx 1/4" Elbow	5- 41-Ex 1/8" Drain Cock
10-60-Fx 1/8" Sleeve	5-69-Fx 1/2" Elbow	5- 37-Ex 1/8" Shut-Off Cock
10-61-Fx 1/4" Nut	3-72-Fx 1/4" Tee	5-109-Bx 1/8" Pipe Plug
10-61-Fx 1/2" Nut	3-72-Fx 1/2" Tee	5-109-Bx 1/4" Pipe Plug
5-62-Fx 1/4" Union	3-64-Fx 1/4" Tee	5-100-Bx 1/8" Elbow
5-62-Fx 1/2" Union	3-64-Fx 1/2" Tee	5-103-Bx 1/8" Coupling
5-66-Fx 1/4" Bushing	3-70-Fx 1/4" Elbow	5-110-Bx 1/8" x 1/4" Bushing
5-66-Fx 1/2" Bushing	3-70-Fx 1/2" Elbow	5-116-Bx 1/8" Street Elbow
7-68-Fx 1/4" Connector	3- 6-Ex 1/4" Priming Cup	5-112-Bx 1/8" Close Nipple
5-68-Fx 1/2" Connector	6- 7-Ex 1/8" Priming Cup	

No. 116-F All Purpose Assortment (154 Fittings) \$35.00 Each

Coupling Assortments

These Tube Coupling Assortments are designed for dealers, garages, service stations, hardware stores and small manufacturers.

They are for replacing fuel, oil and air line couplings on automobiles trucks tractors, buses, oil burners, etc.

The most popular patterns and sizes are packed in a strong and neat steel box.

The box has separate compartments for each pattern and size of coupling and in addition has a chart on the inside cover showing a picture of the coupling that goes into each compartment together with the size and list price.

This makes it an easy matter to fill, recheck your stock and reorder.

No. 110-F

Dealer's Handy Assortment Imperial Compression Couplings



Size 15 $\frac{1}{4}$ "x7 $\frac{3}{4}$ "x1 $\frac{1}{2}$ "
Weight, 7 $\frac{1}{4}$ lbs.

No. 110-F Handy Assortment consist of:

Quantity	Article
12—	No. 60-Fx $\frac{1}{4}$ " Sleeves
12—	No. 60-Fx $\frac{5}{16}$ " Sleeves
6—	No. 61-Fx $\frac{1}{4}$ " Nuts
6—	No. 61-Fx $\frac{5}{16}$ " Nuts
3—	No. 62-Fx $\frac{1}{4}$ " Unions
3—	No. 62-Fx $\frac{5}{16}$ " Unions
3—	No. 66-Fx $\frac{1}{4}$ " Bushings
3—	No. 66-Fx $\frac{5}{16}$ " Bushings
8—	No. 68-Fx $\frac{1}{4}$ " Connectors
8—	No. 68-Fx $\frac{5}{16}$ " Connectors
3—	No. 68-F $\frac{5}{16}$ "x $\frac{1}{4}$ " Connectors
8—	No. 69-Fx $\frac{1}{4}$ " Elbows
8—	No. 69-Fx $\frac{5}{16}$ " Elbows
3—	No. 69-F $\frac{5}{16}$ "x $\frac{1}{4}$ " Elbows
3—	No. 70-Fx $\frac{1}{4}$ " Elbows
3—	No. 70-Fx $\frac{5}{16}$ " Elbows
2—	No. 71-Fx $\frac{1}{4}$ " Tees
2—	No. 71-Fx $\frac{5}{16}$ " Tees
3—	No. 72-Fx $\frac{1}{4}$ " Tees
3—	No. 72-Fx $\frac{5}{16}$ " Tees

Total—102 Couplings

Cat. No.	Each
110-F Compression Coupling Assortment, complete	\$19.70

No. 115-F

Dealer's Handy Assortment Imperial S. A. E. Tube Couplings



Size 15 $\frac{1}{4}$ "x7 $\frac{3}{4}$ "x1 $\frac{1}{2}$ "
Weight, 8 lbs.

No. 115-F Handy Assortment consists of:

Quantity	Article
36—	41-Fx $\frac{1}{4}$ " Nuts
36—	41-Fx $\frac{5}{16}$ " Nuts
3—	42-Fx $\frac{1}{4}$ " Unions
3—	42-Fx $\frac{5}{16}$ " Unions
3—	44-Fx $\frac{1}{4}$ " Tees
3—	44-Fx $\frac{5}{16}$ " Tees
3—	45-Fx $\frac{1}{4}$ " Tees
3—	45-Fx $\frac{5}{16}$ " Tees
3—	46-Fx $\frac{1}{4}$ " Female Couplings
3—	46-Fx $\frac{5}{16}$ " Female Couplings
6—	48-Fx $\frac{1}{4}$ " Half Union Couplings
6—	48-Fx $\frac{5}{16}$ " Half Union Couplings
6—	49-Fx $\frac{1}{4}$ " Elbows
6—	49-Fx $\frac{5}{16}$ " Elbows

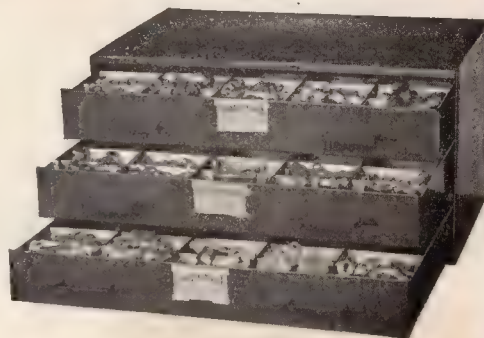
Total—120 Couplings

Cat. No.	Each
115-F S. A. E. Assortment, complete	\$21.00

"IDEAL" Three-Drawer Coupling Assortment

An attractive and strongly built three-drawer steel cabinet, with one drawer filled with compression couplings, another with S. A. E. Couplings and the third with shut-off cocks, drain cocks, priming cups and pipe fittings, all in the most popular types and sizes.

Each drawer has adjustable dividers so that you can regulate the size of each compartment and a label is furnished for each divider, showing a picture of the fitting in the compartment, the size and list price.



Size 17 1/4" x 11 3/4" x 9"
Weight, 55 lbs.

CONTENTS

25 60F 1/8" Sleeves	6 69F 1/8" Elbows	4 27EF Shut Off Cocks
25 60F 1/8" Sleeves	20 69F 1/4" Elbows	4 29EF Shut Off Cocks
100 60F 1/4" Sleeves	20 69F 1/2" Elbows	2 57EF Shut Off Cocks
100 60F 1/2" Sleeves	12 69F 3/8" Elbows	3 31E Shut Off Cocks
25 60F 3/8" Sleeves	20 41F 1/4" Nuts	3 31E Shut Off Cocks
12 61F 1/8" Nuts	20 41F 1/2" Nuts	3 76E Shut Off Cocks
12 61F 1/8" Nuts	12 41F 3/8" Nuts	3 27SAE Shut Off Cocks
50 61F 1/4" Nuts	6 42F 1/4" Unions	3 29SAE Shut Off Cocks
50 61F 1/2" Nuts	6 42F 1/2" Unions	2 57SAE Shut Off Cocks
12 61F 3/8" Nuts	6 42F 3/8" Unions	10 103B 1/8" Couplings
12 62F 1/4" Unions	12 48F 1/4" Half Unions	5 103B 1/4" Couplings
12 62F 1/2" Unions	12 48F 1/2" Half Unions	10 109B 1/8" Plugs
6 62F 3/8" Unions	6 48F 3/8" Half Unions	5 109B 1/4" Plugs
6 68F 1/8" Connectors	12 49F 1/4" Elbows	10 110B 1/4" x 1/8" Bushings
6 68F 1/8" Connectors	12 49E 1/2" Elbows	5 110B 3/8" x 1/4" Bushings
20 68F 1/4" Connectors	6 49F 3/8" Elbows	10 112B 1/8" Nipples
20 68F 1/2" Connectors	10 41E Drain Cock	5 112B 1/4" Nipples
12 68F 3/8" Connectors	5 42E Drain Cock	6 116B 1/8" Street Elbows
6 69F 1/8" Elbows	4 7E Priming Cups	6 119B 1/4" x 1/8" Reducing Couplings

No. 124-F "Ideal" Assortment (815 Fittings) \$140.00 Each
 Dealer's Price 70.00 Each
 Cabinet Only 7.95 Each



Size 15 1/4" x 7 3/4" x 1 1/4"
Weight, 11 lbs.

All Purpose Assortment

This is a very popular assortment for any garage, repair shop, hardware and auto supply stores.

The parts contained in this assortment are the popular compression couplings, pipe fittings and priming cups and drain cocks in the most popular sizes.

The chart on the inside of the cover shows a picture of each fitting, size and retail price.

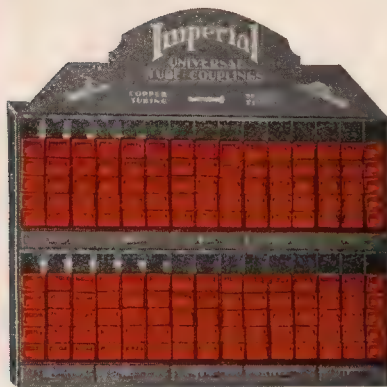
CONTENTS

10-60-Fx 1/8" Sleeve	5-69-Fx 1/4" Elbow	5-41-Ex 1/8" Drain Cock
10-60-Fx 1/8" Sleeve	5-69-Fx 1/2" Elbow	5-37-Ex 1/8" Shut-Off Cock
10-61-Fx 1/4" Nut	3-72-Fx 1/4" Tee	5-109-Bx 1/8" Pipe Plug
10-61-Fx 1/2" Nut	3-72-Fx 1/2" Tee	5-109-Bx 1/4" Pipe Plug
5-62-Fx 1/4" Union	3-64-Fx 1/4" Tee	5-100-Bx 1/8" Elbow
5-62-Fx 1/2" Union	3-64-Fx 1/2" Tee	5-103-Bx 1/8" Coupling
5-66-Fx 1/4" Bushing	3-70-Fx 1/4" Elbow	5-110-Bx 1/8" x 1/4" Bushing
5-66-Fx 1/2" Bushing	3-70-Fx 1/2" Elbow	5-116-Bx 1/8" Street Elbow
7-68-Fx 1/4" Connector	3-6-Ex 1/4" Priming Cup	5-112-Bx 1/8" Close Nipple
5-68-Fx 1/2" Connector	6-7-Ex 1/8" Priming Cup	

No. 116-F All Purpose Assortment (154 Fittings) \$35.00 Each

Greater Profits with the IMPERIAL

Merchandizing Plan



No. 135-F—Assortment

With this assortment, you are able to fill orders quicker and furnish your customer with the new attractive dealers' packages.

The steel cabinet has 30 compartments, each of which holds 10 of the new packages. The assortment consists of 30 type and sizes of the most popular fittings on which you are now getting 80 to 85 per cent of your fitting volume.

Each dealers' package has a picture of the fitting, name, part number, quantity, size and price.

Below the compartments are a series of drawers, in which can be placed bulk fittings to simplify filling orders for broken package quantities.

Can be hung on the wall, placed on counter or on the 118-F Fitting Cabinet.

No. 135-F—Assortment complete. Jobber's net price...\$105.00

DISPLAY FIXTURE

The Imperial Display Fixture has fittings and tools fastened to the four sides of the fixture and may be revolved by hand.

When placed on the counter, it enables customers to quickly select the parts they need and will increase the sale of other fittings and tools.

Consists of tube working tools, compression and S. A. E. tube couplings, shut-off cocks and brass pipe fittings.

No. 130-F—Display Fixture complete. Jobber's net price \$12.50
Weight, 21 lbs.



35"x12"x34 5/8"

This popular welded steel fitting cabinet enables you to serve customers quicker, less danger of running short on certain types or sizes, and saves time in checking stock.

Has 50 drawers, two of which are the large drawers at the bottom of the cabinet for keeping a reserve stock of fittings and copper tubing service tools. Each drawer is divided into from two to five compartments, by adjustable dividers, with a label on each drawer with a picture, part number, price and size of the fitting in the compartment.

No. 118-F—Contains 2,850 pieces complete with cabinet.
Jobber's price, each...\$165.00
Weight, 350 lbs.

No. 123-F—Contains 1,600 pieces complete with cabinet.
Jobber's price, each...\$96.75
Weight, 285 lbs.



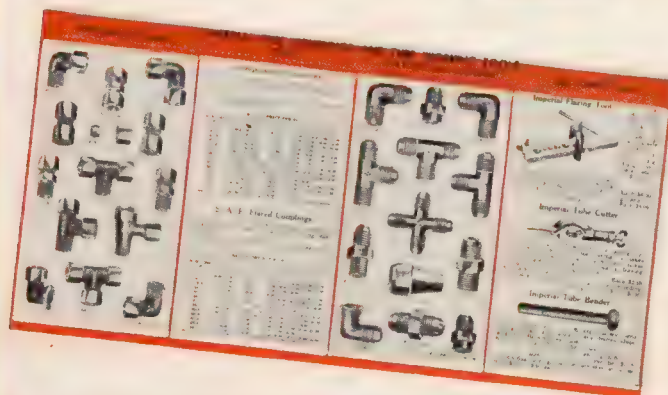
DEALERS' FITTING CARDS

Over 85,000 of these handy fitting cards have been distributed to dealers, garages, and service stations to assist them in ordering fittings. Pictures of the fittings are shown on both sides of the card, as well as a complete list of sizes, list prices, and part numbers. Each card has a string so that it can be hung up for ready reference. Furnished free for distribution to your dealers with your imprint.

FITTING CIRCULARS

This attractive fitting circular shows pictures of the various types of tube couplings and tube working tools, as well as part numbers, sizes and list prices.

FURNISHED FREE TO JOBBERS
WITH THEIR IMPRINT FOR
ENVELOPE STUFFERS



No. 135-F Jobbers' Fitting Assortment with Fittings Put Up in New Dealers' Packages



Size 6"x34½"x35"
Weight, 156 lbs.

This new fitting assortment contains the fittings in the most popular types and sizes on which you are now doing about 80 per cent of your fitting business.

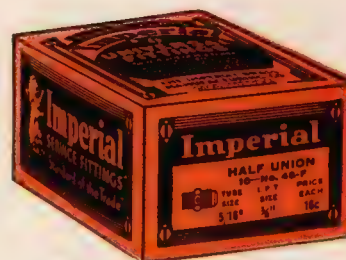
These fittings are put up in the new dealers' packages in quantities that the dealer will buy for stock.

Each of these attractive packages shows a picture of the fitting contained in the package, name of fitting, quantity, part number, size, also list price from which dealer receives a 50 per cent discount.

The welded steel cabinet has 30 partitions, each of which contains 10 packages of one of the popular fittings. Above each compartment is a label showing the part number and size.

You can now quickly fill dealers' orders for fittings. For orders in less than package quantities a drawer has been provided at bottom of the rows of compartments for bulk fittings.

Where your customers would order one or two fittings, your salesman can now sell a package for his stock. You will increase your fitting sales and fill your orders quickly.



The New Fitting Package
All the necessary information is
printed on the package

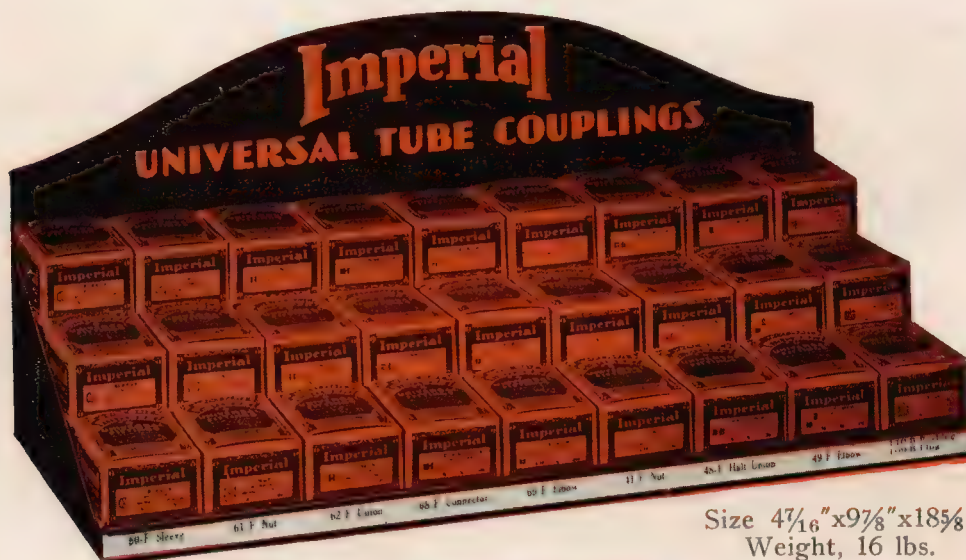
CONTENTS

200-60F ¼" Sleeves
200-60F ⅜" Sleeves
200-60F ½" Sleeves
100-61F ¼" Nuts
100-61F ⅜" Nuts
50-61F ½" Nuts
50-62F ¼" Unions
50-62F ⅜" Unions
30-62F ½" Unions
100-68F ¼" Connectors

100-68F ⅜" Connectors
50-68F ½" Connectors
100-69F ¼" Elbows
100-69F ⅜" Elbows
50-69F ½" Elbows
100-41F ¼" Union Nuts
100-41F ⅜" Union Nuts
50-41F ½" Union Nuts
50-42F ¼" Unions
50-42F ⅜" Unions

30-42F ½" Unions
100-48F ¼" Half Unions
100-48F ⅜" Half Unions
50-48F ½" Half Unions
100-49F ¼" Elbows
100-49F ⅜" Elbows
50-49F ½" Elbows
100-109B ¼" Plugs
50-109B ⅜" Plugs
100-110B ½" Reducing Bushings

No. 135-F—Assortment complete. Dealer's Price, Each.....\$225.00
Retail List Price for Fittings, only450.00
Cabinet only9.50



Size $4\frac{7}{16}$ " x $9\frac{7}{8}$ " x $18\frac{5}{8}$ "
Weight, 16 lbs.

Here is our Greatest Offer on IMPERIAL SERVICE PARTS

Buy This Assortment of Fast Moving Packaged Parts
and Get a Beautiful Steel Display Cabinet
Absolutely FREE

This assortment of packaged fittings gives you an excellent service stock and in addition the attractive display feature will help you increase your sales.

Look at these prices!

Regular retail price of brass fittings
in assortment.....\$42.00
Discount 50%.....21.00

Net Cost of Assortment.....\$21.00
DEALER'S PROFIT IS.....\$21.00

Display Cabinet Without Extra Charge

Each assortment contains 27 packages, holding 248 individual service parts in the sizes and types with which 80% of the fitting business is done. There is no chance for waste, as only the faster moving parts are included in this assortment.

On each box is an illustration of the fitting, together with size and retail price. This aids you in obtaining your full profit.

Now is the time to stock up for this season's repair business. Order the Imperial Service Cabinet Assortment from your local jobber.

Contents

20—No. 60-F $\frac{1}{4}$ " Sleeves
20—No. 60-F $\frac{5}{16}$ " Sleeves
20—No. 60-F $\frac{3}{8}$ " Sleeves
10—No. 61-F $\frac{1}{4}$ " Nuts
10—No. 61-F $\frac{5}{16}$ " Nuts
5—No. 61-F $\frac{3}{8}$ " Nuts
5—No. 62-F $\frac{1}{4}$ " Unions
5—No. 62-F $\frac{5}{16}$ " Unions
3—No. 62-F $\frac{3}{8}$ " Unions
10—No. 68-F $\frac{1}{4}$ " Connectors
10—No. 68-F $\frac{5}{16}$ " Connectors
5—No. 68-F $\frac{3}{8}$ " Connectors
10—No. 69-F $\frac{1}{4}$ " Elbows
10—No. 69-F $\frac{5}{16}$ " Elbows
5—No. 69-F $\frac{3}{8}$ " Elbows
10—No. 109-B $\frac{1}{8}$ " Plug
5—No. 109-B $\frac{1}{4}$ " Plug
10—No. 110-B $\frac{1}{4}$ " x $\frac{1}{8}$ " Bushing
10—No. 41-F $\frac{1}{4}$ " Union Nuts
10—No. 41-F $\frac{5}{16}$ " Union Nuts
5—No. 41-F $\frac{3}{8}$ " Union Nuts
10—No. 48-F $\frac{1}{4}$ " Half Unions
10—No. 48-F $\frac{5}{16}$ " Half Unions
5—No. 48-F $\frac{3}{8}$ " Half Unions
10—No. 49-F $\frac{1}{4}$ " Elbows
10—No. 49-F $\frac{5}{16}$ " Elbows
5—No. 49-F $\frac{3}{8}$ " Elbows

1—No. 136-F—Assortment, complete with cabinet.....Dealer's Price, Each \$21.00
List Price of Fittings only, 42.00



New and Attractive Standard Packages

An IMPORTANT MESSAGE to JOBBER'S SALESMEN

Service Parts in Dealers' Packages







INVESTIGATION discloses that SIX compression and FOUR SAE fittings in only three sizes will take care of 80% of all fitting replacement business on AUTOMOBILES, TRUCKS, TRACTORS, MOTOR BOATS, BUSES and OIL BURNERS.







It is these fast moving Service Parts that are now put up in small handy Packages. On each package is an illustration of the fitting together with quantity, size and retail price. This helps the dealer maintain a PROFITABLE selling price. He can't help noticing the retail price each time he takes a fitting from the package. This also makes for easy and quick selection of parts and for a cleaner stock.

There is a continuous call for these faster moving Service Parts. Every dealer will want to carry them in his stock.

The types and sizes furnished in dealers' packages and in quantities that dealers should stock are shown below.

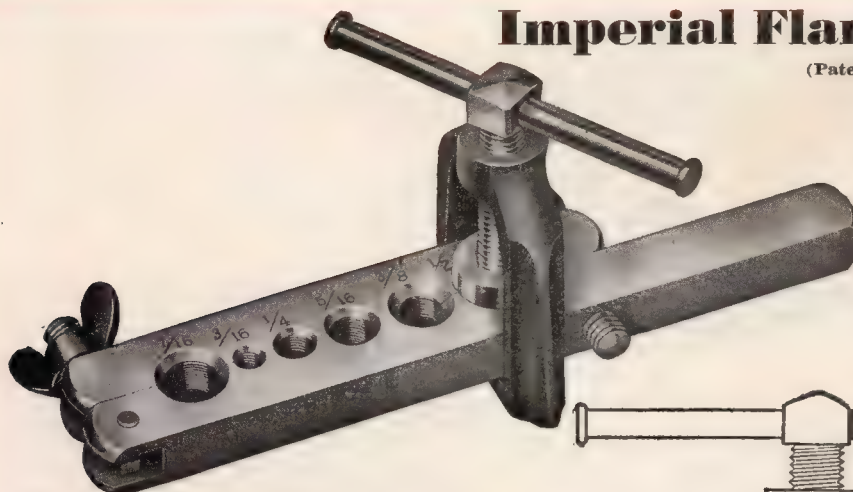
Prices shown are dealers' net prices per package.

Cat. Nos. and Description	O. D. of Tube	Size Iron Pipe Thread	Dealers Pkg. Qty.	Net Price Per Dealers Pkg.
 No. 60-F Sleeve	1/4		20	\$0.21
	5/16		20	.26
	3/8		20	.37
 No. 61-F Nut	1/4		10	.32
	5/16		10	.42
	3/8		5	.26
 No. 181-D Nut	1/4		10	.42
	5/16		10	.56
	3/8		5	.36
 No. 62-F Union	1/4		5	.66
	5/16		5	.82
	3/8		3	.62
 No. 68-F Connector	1/4	1/8	10	.89
	5/16	1/8	10	1.05
	3/8	1/4	5	.89
 No. 69-F Elbow	1/4	1/8	10	1.37
	5/16	1/8	10	1.68
	3/8	1/4	5	1.34

Cat. Nos. and Description	O. D. of Tube	Size Iron Pipe Thread	Dealers Pkg. Qty.	Net Price Per Dealers Pkg.
 No. 41-F Union Nut	1/4		10	\$0.68
	5/16		10	.89
	3/8		5	.66
 No. 42-F Union Coupling	1/4		5	.50
	5/16		5	.60
	3/8		3	.56
 No. 48-F Half Union	1/4	1/8	10	.68
	5/16	1/8	10	.89
	3/8	1/4	5	.92
 No. 49-F Elbow	1/4	1/8	10	1.05
	5/16	1/8	10	1.21
	3/8	1/4	5	1.16
 No. 109-B Plug		1/8	10	.58
		1/4	5	.42
 No. 110-B Bushing		1/4x1/8	10	.74

Imperial Flaring Tool

(Patented)



The Imperial Flaring Tool flares copper or brass tubing to make up S.A.E. flared joints without cracking or splitting. It can be used to flare tubing already in place on a car or hot and cold water piping that has been laid and is ready for cutting and flaring.

With the S.A.E. flared coupling a proper flare of the tubing is necessary to prevent leakage. These tools quickly give the proper flare and taper to copper tubing from $\frac{1}{8}$ " to and including 1" outside diameter tubing.

No loose dies to become lost or mislaid and no vise is necessary when you use this tool.

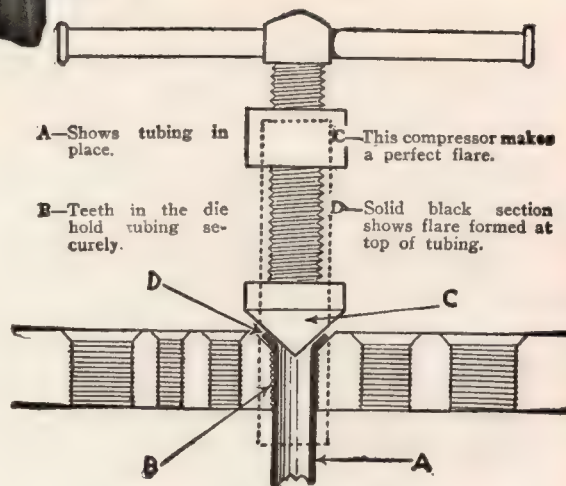
Tubing can be clamped, flared and removed in less than 30 seconds. Wherever S.A.E. flared couplings are used this tool is needed.

Furnished in three (3) sizes:

No. 93-F Flares $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " Outside Diameter Tubing and is especially adapted for automotive and electrical refrigeration work. Price Each.....\$3.00

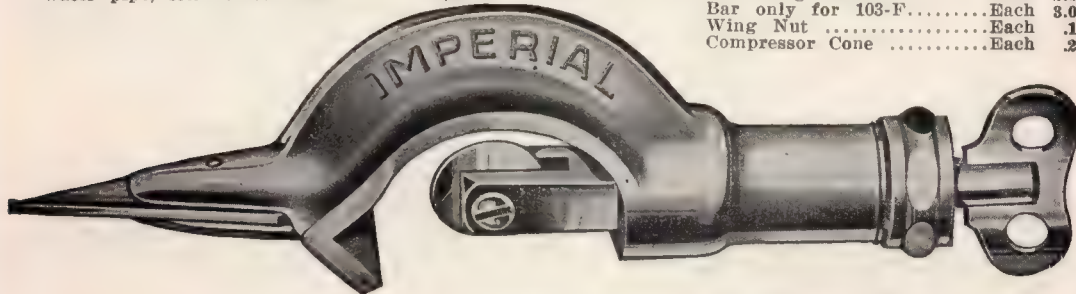
No. 95-F Flares $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " Outside Diameter Tubing and is used by electrical refrigeration installation and service men. Price Each.....\$4.00

No. 103-F Flares $\frac{3}{4}$ ", $\frac{7}{8}$ " and 1" Outside Diameter Tubing and is especially desirable for use in plumbing installations of brass water pipe, etc. Price Each.....\$5.00



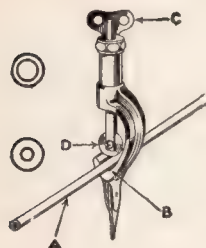
Extra Parts

Yoke only for 93-F Flaring Tool.....	Each	\$1.25
Yoke only for 95-F Flaring Tool.....	Each	1.65
Yoke only for 103-F Flaring Tool.....	Each	2.25
Bar only for 93-F Flaring Tool.....	Each	1.90
Bar only for 95-F Flaring Tool.....	Each	2.60
Bar only for 103-F.....	Each	3.00
Wing Nut	Each	.15
Compressor Cone	Each	.25



Imperial Tube Cutter

(Patented)



Extra Parts

No. 96-F Cutting Wheel.....	Each	\$0.25
No. 97-F Reamer Blade.....	Each	.25
No. 26883 Screw for Cutting Wheel.	Each	.05
No. 27098 Screw for Reamer Blade.	Each	.03

A fitting companion to the Imperial Flaring Tool is this most efficient of all tools for cutting copper, brass, block tin and lead tubing. Furnished in two sizes to take all sizes of tubing from $\frac{1}{8}$ " to and including 1" outside diameter tubing, and makes a right-angle cut, quickly and cleanly, leaving no burrs or chips to clog the line. The tubing does not get out of round as when put in a vise. For ease and efficiency, this tool can't be beat.

Aside from its convenience, there is another big advantage in using this tool. The cutting wheel, as it cuts, turns down a small amount of metal at the end of the tube. This extra metal provides extra strength for flaring so that when the Imperial Flaring Tool is used there is no possibility whatsoever that the tubing will crack or split at the flare. Wherever copper tubing is used, the Imperial Tube Cutter will save time and result in better work.

No. 94-F takes all sizes of tubing from $\frac{1}{8}$ " to and including $\frac{3}{4}$ " outside diameter. Price, Each.....\$2.50

No. 104-F takes tubing from $\frac{1}{4}$ " to and including 1" outside diameter being especially adapted for cutting brass tubing for plumbing installations. It is the same as No. 94-F excepting that it does not have the reamer which is not necessary when working with the larger sizes of tubing. Price, Each.....\$3.50

No. 96-F Extra Cutting Wheels, Each..... .25
No. 97-F Extra Reamer Blades for 94-F. Price Each..... .25



Size $9\frac{1}{4}'' \times 8\frac{5}{8}'' \times 1''$
Weight, 3 lbs.

Flaring and Cutting Tool Kit

This kit has the necessary tools to quickly and properly cut and flare copper, brass, block tin and lead tubing. Consists of the Imperial Flaring Tool, Imperial Tubing Cutter, one extra cutting wheel, all packed in steel box.

The Flaring Tool will quickly give the proper flare without cracking or splitting the tubing.

The Tubing Cutter makes a right angle cut quickly and cleanly, leaving no burrs or chips to clog the line.

No. 125-F Flaring and Cutting Tool Kit consists of: 1—No. 93-F Flaring Tool; 1—No. 94-F Tubing Cutter; 1—No. 96-F Extra Cutting Wheel. Price, Each, \$5.75
No. 126-F Flaring and Cutting Tool Kit consists of: 1—No. 95-F Flaring Tool; 1—No. 94-F Tubing Cutter; 1—No. 96-F Cutting Wheel. Price, Each 6.75

Imperial Refacing Tool



- A. Shows flared end of S. A. E. fitting screwed into adapter
B. Blades of five fluted reamer resting on face of fitting.
C. Adapter.
D. Reamer with five flutes.

It is no longer necessary to throw away S. A. E. tube couplings on which the seats have become marred or scratched.

With the new Imperial Refacing Tool, the seats can be refaced in a few seconds and a tight, leak-proof joint assured.

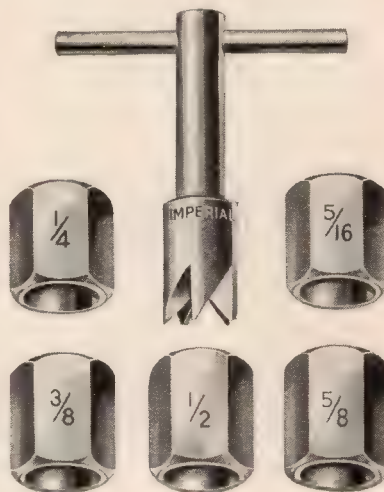
The reamer has five flutes, which assures a smooth cut and eliminates chattering.

In addition it is so designed that it takes adapters for six different sizes of couplings, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch.

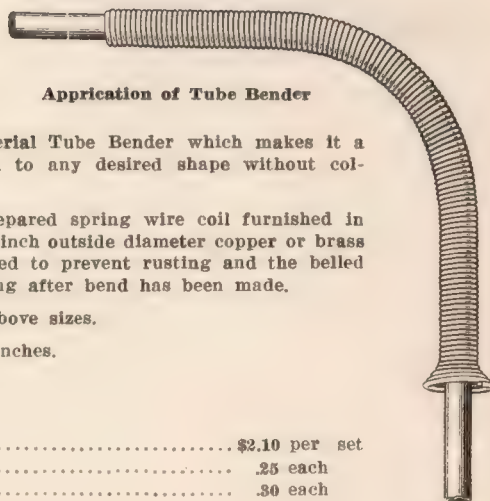
All of the above sizes are regularly furnished with the exception of the $\frac{1}{8}$ inch size. This size may be ordered separately if desired.

Net weight, $1\frac{1}{4}$ lbs.

No.	Each
98-F Refacing Tool complete.....	\$4 50
99-F Reamer only	3.25
100-F Adapter only (specify size wanted) .....	.30



Imperial Tube Bender



Application of Tube Bender

A much needed tool is the new Imperial Tube Bender which makes it a simple matter to bend tubing by hand to any desired shape without collapsing the tube.

The Tube Bender is an especially prepared spring wire coil furnished in six sizes to take $\frac{1}{4}$, $\frac{1}{8}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch outside diameter copper or brass tubing. The springs are Cadmium plated to prevent rusting and the belled end assures ease in removing from tubing after bend has been made.

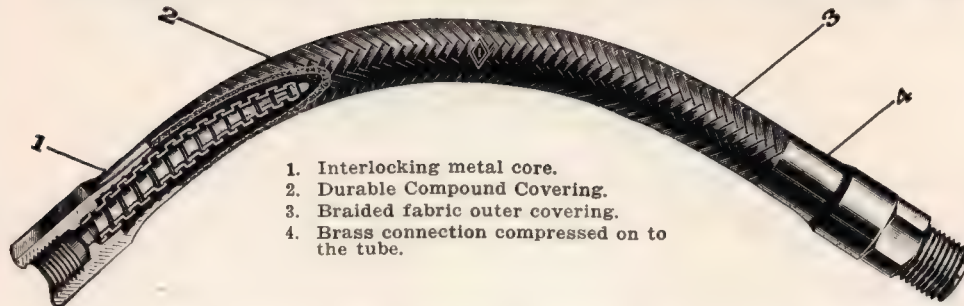
A set consists of six springs of the above sizes.

Over all length of tube bender is $7\frac{1}{2}$ inches.

Net weight of set $4\frac{1}{4}$ oz.

No.		
101-F	Tube Bender (Set of six).....	\$2.10 per set
102-F	$\frac{1}{4}$ -inch Bender.....	.25 each
102-F	$\frac{1}{8}$ -inch Bender.....	.30 each
102-F	$\frac{3}{8}$ -inch Bender.....	.35 each
102-F	$\frac{1}{2}$ -inch Bender.....	.40 each
102-F	$\frac{5}{8}$ -inch Bender.....	.45 each
102-F	$\frac{5}{8}$ -inch Bender.....	.50 each

The Latest and Best Imperial Flexible Tubing



For Replacement of Flexible Gasoline, Oil and Grease Lines on Cars with

FLEXIBLE MOUNTING

The new tubing meets the need for flexibility which has arisen from the widespread use of floating power and flexible mounting gasoline engines. It is approved by ninety per cent of the car manufacturers. The difficulty of making metal tube absolutely gasoline and oil tight, and yet without limit to flexibility, has been provided for by a metallic core with a compound covering. The core consists of a series of interlocking members of links, which are all fused to the covering.

The members are so constructed that the tubing cannot swell shut and it is gasoline proof, oil proof, heat proof and cold proof. Infinite flexing is realized in the new product which is made in lengths complete with couplings to replace gas, oil and grease lines on the cars listed below.

Order by Imperial Number

GAS LINE

Make of Car	Number of Cylinders	Year	Imperial Part No.	List Price Each
Cadillac	16	1931	221-FT	\$1.00
Chrysler	6 & 8	1932-3-4	213-FT	.50
DeSoto	6 & 8	1931	237-FT	.60
DeSoto	6 & 8	1932-3-4	213-FT	.50
Dodge	6 & 8	1932-3-4	213-FT	.50
Essex	6	1932	226-FT	.75
Essex Ter.	6 & 8	1933-4	227-FT	.75
Ford	4	1932-3-4	233-FT	.40
Ford	8	1932-3-4	234-FT	.35
Hudson	8	1932	226-FT	.75
Hudson	6 & 8	1933-4	227-FT	.75
Hupmobile	6 & 8	1933-4	211-FT	.90
Oldsmobile	6 & 8	1933-4	213-FT	.50
Packard	8	1932-3-4	222-FT	1.00
Plymouth	4	1931	237-FT	.60
Plymouth	4 & 6	1932-3-4	213-FT	.50
Pontiac	8	1933-4	220-FT	.45
Reo	6	1933-4	217-FT	.75
Rockne	6	1932-3	228-FT	1.00
Studebaker	6 & 8	1932-3-4	231-FT	1.00
Willy-Ov.	4	1933	224-FT	1.10

OIL and GREASE LINES

Make of Car	Number of Cylinders	Year	Imperial Part No.	List Price Each
Chrysler	6 & 8	1932-3-4	214-FT	\$0.50
DeSoto	6 & 8	1931-2-3-4	214-FT	.50
Dodge	6 & 8	1932-3-4	214-FT	.50
*Ford	4	1932-3-4	235-FT	.30
*Ford	8	1932-3-4	236-FT	.30
Hupmobile	6 & 8	1933-4	212-FT	.90
Oldsmobile	6 & 8	1933-4	215-FT	.75
**Oldsmobile	6 & 8	1933	216-FT	.75
†Packard	8	1932-3-4	223-FT	.75
Plymouth	4 & 6	1931-2-3-4	214-FT	.50
Rockne	6	1931	229-FT	.75
Rockne	6	1932-3	230-FT	.90
Studebaker	6 & 8	1932-3-4	205-FT	.50
§Willys-Ov.	4	1933	225-FT	.90

*Clutch release bearing grease tube.

**Decarbonizer line.

†Windshield wiper line.

§Oil gauge line.

Method of Applying IMPERIAL FLEXIBLE TUBING On Trucks, Buses, and Tractors

SIZES AND LENGTHS

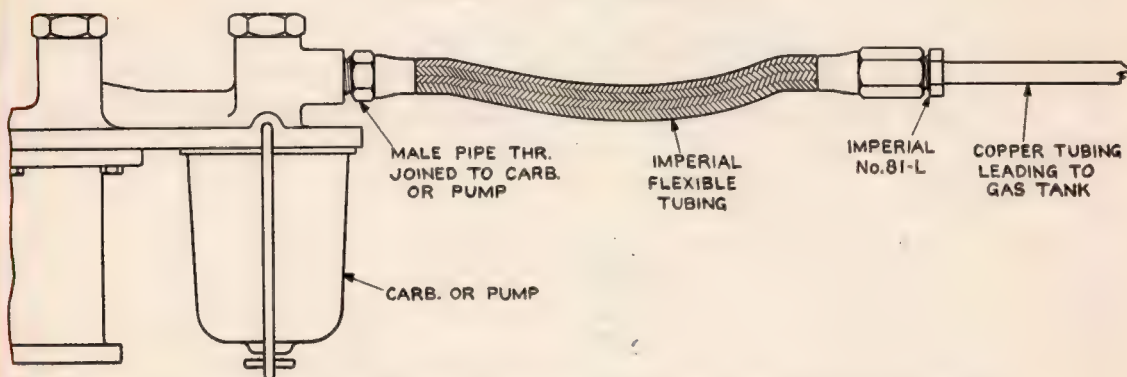
Made in Nine (9) Sizes and Lengths. To fit Trucks, Buses and Tractors.

Catalog No.	Length	Nut on One End to Take Copper Tubing—O.D.	Size of Male Iron Pipe Thread on Other End	Price, Each
240-FT	6"	$\frac{1}{4}$ "	$\frac{1}{8}$ "	\$1.05
241-FT	12"	$\frac{1}{4}$ "	$\frac{1}{8}$ "	1.25
242-FT	6"	$\frac{5}{16}$ "	$\frac{1}{8}$ "	1.35
243-FT	12"	$\frac{5}{16}$ "	$\frac{1}{8}$ "	1.60
244-FT	18"	$\frac{5}{16}$ "	$\frac{1}{8}$ "	1.80
245-FT	6"	$\frac{3}{8}$ "	$\frac{1}{4}$ "	1.50
246-FT	12"	$\frac{3}{8}$ "	$\frac{1}{4}$ "	1.90
247-FT	18"	$\frac{3}{8}$ "	$\frac{1}{4}$ "	2.10
248-FT	24"	$\frac{3}{8}$ "	$\frac{1}{4}$ "	2.40

NOTE: Each length of flexible tubing has a male pipe thread on one end and a copper tubing connection nut on the other end for attaching to the copper tubing. Is easy to install on any gas, oil or air line.

If male iron pipe thread connections are desired on both ends, order an adapter listed below and attach to the tubing connection end.

TYPICAL INSTALLATION



Meets Every Need for Replacement of Gas, Oil, and Air Lines.

Iron Pipe Thread Adapter

For changing tubing connection end to a male iron pipe thread it is only necessary to insert the tube end of adapter into tubing connection nut and tighten the nut.

No. 251-FT.	$\frac{1}{4}$ " O.D. x $\frac{1}{8}$ " Iron Pipe Thread.....	Price Each \$0.55
No. 252-FT.	$\frac{5}{16}$ " O.D. x $\frac{1}{8}$ " Iron Pipe Thread.....	Price Each .60
No. 253-FT.	$\frac{3}{8}$ " O.D. x $\frac{1}{4}$ " Iron Pipe Thread.....	Price Each .65



IMPERIAL Flexible Tubing and Couplings

Tubing furnished in coils to replace copper lines for gas, oil and air, in any length

THE need of flexible tubing for gas, oil and air lines is now well recognized. It takes the place of the copper lines that are subject to breakage through the use of floating power and flexible mounting in gasoline engines. An additional cause is the increased speed at which engines are now operated.



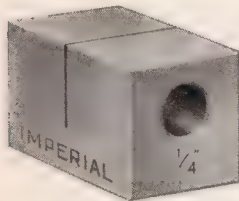
Costly delay and expense caused by the breakage of a copper line can now be avoided. The tubing is thoroughly flexible, yet absolutely gas, oil and air tight. It is made with a brass metal inner core composed of interlocking members, and fused to a compound covering, with a braided fabric on the outside. This fabric is specially treated to resist oil. The illustration on the left, a portion of which appears in section, shows the construction of the tube.

For Cars, Trucks, Buses, Tractors, Etc.

With the strong triple wall described above, the sturdiness of the tubing is assured. In addition to its flexibility it is proof against cold, heat and vibration, and cannot swell nor "kink" shut. It has all the qualities necessary for dependable service on cars, trucks, buses, tractors and lubricating systems of all kinds.

Special Connections of All Types Make Installation Easy and Convenient

This tubing may now be obtained in coils, from which any length desired may be cut and assembled by means of special couplings which are illustrated on the next page. This makes it possible to have the entire line or only a small portion flexible. Any garage or shop can now make up whatever length is required at a moment's notice.



No. 194-Ft. Cutting Block

It is advisable when cutting flexible tubing to use an Imperial Cutting Block (shown at left) which will hold the tubing so that when it is cut with a hacksaw an even cut is assured. The only tools needed in assembling are two ordinary wrenches.

194-FT. Cutting Block furnished for $\frac{1}{4}$ ", $\frac{5}{16}$ ", or $\frac{3}{8}$ ", Flexible Tubing, \$0.90 each.

How to Attach Couplings to Flexible Tubing

After cutting off the tubing to the length required, pass the tube through the nut "A" and the compressible sleeve "B." Place the small grommet "D" into the end of the tube, and push the tube into body "C," as far as it will go. Assemble nut "A" to body "C" and tighten. This will give a tight, leakproof joint. The small grommet comes with the coupling to form a hard seat at the severed end of the tube.



Flexible Tubing with Brass Metal Inner Core

No. 13-FT. Equivalent to $\frac{1}{4}$ " O.D. Copper Tubing in 25 and 50-foot coils...40c per ft.

No. 14-FT. Equivalent to $\frac{5}{16}$ " O.D. Copper Tubing in 25 and 50-foot coils...42c per ft.

No. 15-FT. Equivalent to $\frac{3}{8}$ " O.D. Copper Tubing in 25 and 50-foot coils.....45c per ft.

No. 16-FT. Equivalent to $\frac{1}{2}$ " O.D. Copper Tubing in 25-foot coils.....70c per ft.






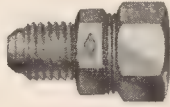

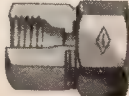
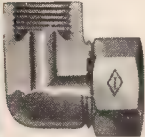


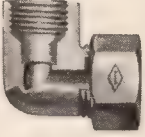




Imperial Flexible Tubing and Couplings

(Continued from page 21-AA)

IMPERIAL Flexible Tube Couplings are for use with Imperial Flexible Tubing. They make a tight leakproof connection and are furnished in a variety of styles to take $\frac{1}{4}$ ", $\frac{3}{16}$ " and $\frac{1}{2}$ " flexible tubing. These couplings are adaptable for practically every type of joint that occurs in gas, oil and air line assemblies. Flexible tubing connection on one end, and the other end can be furnished for either compression, flared, inverted flare, Hi-Duty or iron pipe thread in male or female and in straight or elbow types.

In addition to the ease of assembly to flexible tubing the couplings can be detached and used over again.

The prices listed below cover parts complete with nut, sleeve and grommet.

Inverted Nut to Hose			S.A.E. Nut to Hose			Compression Nut to Hose			Hi-Duty Nut to Hose		
											
Cat. No.	O.D. Used with Tube Hose No.	List Price	Cat. No.	O.D. Used with Tube Hose No.	List Price	Cat. No.	O.D. Used with Tube Hose No.	List Price	Cat. No.	O.D. Used with Tube Hose No.	List Price
F-213	$\frac{1}{4}$ " 13-FT	\$28.50-C	F-413	$\frac{3}{16}$ " 13-FT	\$28.50-C	F-613	$\frac{1}{4}$ " 13-FT	\$30.00-C	F-813	$\frac{3}{16}$ " 13-FT	\$30.00-C
F-214	$\frac{1}{4}$ " 13-FT	28.50-C	F-414	$\frac{1}{2}$ " 13-FT	32.00-C	F-614	$\frac{1}{4}$ " 13-FT	30.00-C	F-814	$\frac{1}{4}$ " 13-FT	30.00-C
F-215	$\frac{1}{4}$ " 14-FT	34.00-C	F-415	$\frac{3}{16}$ " 13-FT	36.25-C	F-615	$\frac{1}{4}$ " 14-FT	35.00-C	F-815	$\frac{3}{16}$ " 14-FT	35.00-C
F-216	$\frac{3}{16}$ " 15-FT	45.00-C	F-416	$\frac{3}{16}$ " 15-FT	55.00-C	F-616	$\frac{3}{16}$ " 15-FT	52.50-C	F-816	$\frac{3}{16}$ " 15-FT	55.00-C
F-218	$\frac{1}{2}$ " 16-FT	80.00-C	F-418	$\frac{1}{2}$ " 16-FT	85.00-C	F-618	$\frac{1}{2}$ " 16-FT	85.00-C	F-818	$\frac{1}{2}$ " 16-FT	85.00-C
Inverted Connector to Hose			S.A.E. Connector to Hose			Compression Connector to Hose			Hi-Duty Connector to Hose		
											
Cat. No.	O.D. Used with Tube Hose No.	List Price	Cat. No.	O.D. Used with Tube Hose No.	List Price	Cat. No.	O.D. Used with Tube Hose No.	List Price	Cat. No.	O.D. Used with Tube Hose No.	List Price
F-283	$\frac{1}{4}$ " 13-FT	\$32.50-C	F-483	$\frac{3}{16}$ " 13-FT	\$27.50-C	F-683	$\frac{1}{4}$ " 13-FT	\$27.50-C	F-883	$\frac{3}{16}$ " 13-FT	\$27.50-C
F-284	$\frac{1}{4}$ " 13-FT	32.50-C	F-484	$\frac{1}{2}$ " 13-FT	29.00-C	F-684	$\frac{1}{4}$ " 13-FT	28.50-C	F-884	$\frac{1}{4}$ " 13-FT	28.50-C
F-285	$\frac{1}{4}$ " 14-FT	35.00-C	F-485	$\frac{3}{16}$ " 14-FT	30.00-C	F-685	$\frac{1}{4}$ " 14-FT	30.00-C	F-885	$\frac{3}{16}$ " 14-FT	30.00-C
F-286	$\frac{3}{16}$ " 15-FT	50.00-C	F-486	$\frac{3}{16}$ " 15-FT	50.00-C	F-686	$\frac{3}{16}$ " 15-FT	45.00-C	F-886	$\frac{3}{16}$ " 15-FT	47.50-C
F-288	$\frac{1}{2}$ " 16-FT	75.00-C	F-488	$\frac{1}{2}$ " 16-FT	80.00-C	F-688	$\frac{1}{2}$ " 16-FT	80.00-C	F-888	$\frac{1}{2}$ " 16-FT	80.00-C
Inverted Elbow to Hose			S.A.E. Elbow to Hose			Compression Elbow to Hose			Hi-Duty Elbow to Hose		
											
Cat. No.	O.D. Used with Tube Hose No.	List Price	Cat. No.	O.D. Used with Tube Hose No.	List Price	Cat. No.	O.D. Used with Tube Hose No.	List Price	Cat. No.	O.D. Used with Tube Hose No.	List Price
F-293	$\frac{1}{4}$ " 13-FT	\$35.00-C	F-493	$\frac{3}{16}$ " 13-FT	\$30.00-C	F-693	$\frac{1}{4}$ " 13-FT	\$32.50-C	F-893	$\frac{3}{16}$ " 13-FT	\$30.00-C
F-294	$\frac{1}{4}$ " 13-FT	35.00-C	F-494	$\frac{1}{2}$ " 13-FT	32.50-C	F-694	$\frac{1}{4}$ " 13-FT	32.50-C	F-894	$\frac{1}{4}$ " 13-FT	30.00-C
F-295	$\frac{1}{4}$ " 14-FT	37.50-C	F-495	$\frac{3}{16}$ " 14-FT	35.00-C	F-695	$\frac{1}{4}$ " 14-FT	35.00-C	F-895	$\frac{3}{16}$ " 14-FT	32.50-C
F-296	$\frac{3}{16}$ " 15-FT	70.00-C	F-496	$\frac{3}{16}$ " 15-FT	75.00-C	F-696	$\frac{3}{16}$ " 15-FT	75.00-C	F-896	$\frac{3}{16}$ " 15-FT	75.00-C
F-298	$\frac{1}{2}$ " 16-FT	110.00-C	F-498	$\frac{1}{2}$ " 16-FT	115.00-C	F-698	$\frac{1}{2}$ " 16-FT	115.00-C	F-898	$\frac{1}{2}$ " 16-FT	115.00-C
Male Iron Pipe Thread to Hose			Male Iron Pipe Thread Elbow to Hose			Female Iron Pipe Thread to Hose			Female Iron Pipe Thread Elbow to Hose		
											
Cat. No.	Male Used with I.P.T. Hose No.	List Price	Cat. No.	Male Used with I.P.T. Hose No.	List Price	Cat. No.	Female Used with I.P.T. Hose No.	List Price	Cat. No.	Female Used with I.P.T. Hose No.	List Price
F-10	$\frac{1}{4}$ " 13-FT	\$25.00-C	F-19	$\frac{1}{4}$ " 13-FT	\$27.50-C	F-28	$\frac{1}{4}$ " 13-FT	\$27.50-C	F-37	$\frac{1}{4}$ " 13-FT	\$28.50-C
F-11	$\frac{1}{4}$ " 13-FT	25.00-C	F-20	$\frac{1}{4}$ " 13-FT	27.50-C	F-29	$\frac{1}{4}$ " 13-FT	27.50-C	F-38	$\frac{1}{4}$ " 13-FT	28.50-C
F-12	$\frac{1}{4}$ " 14-FT	34.00-C	F-21	$\frac{1}{4}$ " 14-FT	30.00-C	F-30	$\frac{1}{4}$ " 14-FT	30.00-C	F-39	$\frac{1}{4}$ " 14-FT	32.50-C
F-13	$\frac{1}{4}$ " 14-FT	30.00-C	F-22	$\frac{1}{4}$ " 14-FT	30.00-C	F-31	$\frac{1}{4}$ " 14-FT	30.00-C	F-40	$\frac{1}{4}$ " 14-FT	32.50-C
F-14	$\frac{1}{4}$ " 15-FT	50.00-C	F-23	$\frac{1}{4}$ " 15-FT	75.00-C	F-32	$\frac{1}{4}$ " 15-FT	45.00-C	F-41	$\frac{1}{4}$ " 15-FT	75.00-C
F-15	$\frac{1}{4}$ " 15-FT	50.00-C	F-24	$\frac{1}{4}$ " 15-FT	75.00-C	F-33	$\frac{1}{4}$ " 15-FT	45.00-C	F-42	$\frac{1}{4}$ " 15-FT	75.00-C
F-16	$\frac{1}{4}$ " 15-FT	50.00-C	F-25	$\frac{1}{4}$ " 15-FT	75.00-C	F-34	$\frac{1}{4}$ " 15-FT	45.00-C	F-43	$\frac{1}{4}$ " 15-FT	75.00-C
F-17	$\frac{3}{16}$ " 16-FT	80.00-C	F-26	$\frac{3}{16}$ " 16-FT	115.00-C	F-35	$\frac{3}{16}$ " 16-FT	80.00-C	F-44	$\frac{3}{16}$ " 16-FT	115.00-C
F-18	$\frac{1}{2}$ " 16-FT	105.00-C	F-27	$\frac{1}{2}$ " 16-FT	135.00-C	F-36	$\frac{1}{2}$ " 16-FT	105.00-C	F-45	$\frac{1}{2}$ " 16-FT	115.00-C




 Grommet			 Sleeve			 Nut		
Cat. No.	Used with Size Hose No.	List Price	Cat. No.	Used with Size Hose No.	List Price	Cat. No.	Used with Size Hose No.	List Price
103-FT	$\frac{1}{4}$ " 13-FT	\$1.50-C	102-FT	$\frac{1}{4}$ " 13-FT	\$7.00-C	101-FT	$\frac{1}{4}$ " 13-FT	\$9.00-C
106-FT	$\frac{3}{16}$ " 14-FT	2.00-C	105-FT	$\frac{3}{16}$ " 14-FT	8.00-C	104-FT	$\frac{3}{16}$ " 14-FT	10.00-C
109-FT	$\frac{1}{2}$ " 15-FT	2.50-C	108-FT	$\frac{1}{2}$ " 15-FT	9.00-C	107-FT	$\frac{1}{2}$ " 15-FT	11.00-C
112-FT	$\frac{1}{2}$ " 16-FT	4.00-C	111-FT	$\frac{1}{2}$ " 16-FT	11.00-C	110-FT	$\frac{1}{2}$ " 16-FT	14.00-C

Table of Flexible Tubing Lengths For Trucks, Buses and Tractors

The following listings give the lengths of flexible hose required for replacements on different makes and models of trucks, buses and tractors.

As each installation can now be made by cutting the necessary length straight from the coil, the entire replacement can be made up of flexible hose. See pages 21-AA and 22-AA. The listings therefore do not show copper and flexible lengths in separate columns, but flexible lengths only, with the necessary fittings at each end.

Mfg. Part No.	Mfg. Model No.	Type of Line	Overall Length of Line	Cat. No. of Fitting on One End	Cat. No. of Fitting on Other End	Length of Flexible Hose	Catalog Number of Hose
AMERICAN CAR AND FOUNDRY BUSES							
205597	508-519	Oil	62"	F-415	F-30	60 3/4"	14-FT
216597	508-519	Gas	23"	F-415	F-415	21 1/4"	14-FT
218539	508-519	Gas	41"	F-416	F-416	39 1/4"	15-FT
201687	508-519	Air	38"	F-416	F-416	36 1/4"	15-FT
212729	503-601	Gas	29"	F-415	F-415	29 1/2"	14-FT
201640	503-601	Gas	50"	F-415	F-415	48 1/2"	14-FT
201643	503-601	Oil	44"	F-415	F-415	42 1/4"	14-FT
209917	508	Air	32"	F-415	F-415	32 1/2"	14-FT
212618	508	Air	27"	F-416	F-416	25 1/4"	15-FT
BROCKWAY TRUCKS							
2208-1	T4-57	Gas	27 1/16"	F-415	F-415	28 3/16"	14-FT
2208-3	R4-SK3	Gas	30 1/16"	F-415	F-415	31 3/16"	14-FT
2208-5	E2	Oil	36"	F-415	F-415	36 1/2"	14-FT
2208-4	T4-K5	Gas	41 1/16"	F-415	F-415	42 3/16"	14-FT
2208-8	EY-E7-SY-SW	Oil	47 1/16"	F-415	F-415	48 3/16"	14-FT
2208-2	T4-S4	Gas	38 1/16"	F-415	F-415	39 3/16"	14-FT
2208-7	H	Oil	23 1/16"	F-415	F-415	24 3/16"	14-FT
2208-9	SZ-9	Oil	55 1/16"	F-415	F-415	56 3/16"	14-FT
2209-1	E4-S4-K5	Oil	20"	F-415	F-415	22 1/2"	14-FT
CATERPILLAR TRACTORS							
V-495	15	Gas	14 3/8"	F-11	F-414	12 1/8"	13-FT
V-496	15	Gas	9 3/8"	F-11	F-414	7 1/8"	13-FT
T-795	10	Gas	13 3/8"	F-11	F-414	11 1/8"	13-FT
T-796	10	Gas	8"	F-11	F-414	6 1/2"	13-FT
T-878	10	Gas	12 1/2"	F-11	F-414	11"	13-FT
A-3615	10	Gas	18"	F-416	F-416	16 1/4"	15-FT
L-2338	20	Gas	22 3/8"	F-11	F-414	21 1/8"	13-FT
DIAMOND T TRUCKS							
DT-6170-N	302	Gas	45"	F-415	F-415	43 1/2"	14-FT
DT-6170-E	75-76-TC-T4-U4	Gas	54 1/2"	F-415	F-415	53"	14-FT
DT-6170-C	U2-S-T2-O4	Gas	37 3/4"	F-415	F-415	36 1/4"	14-FT
DT-6170-J	K3-T3-T4-U4-S2	Gas	27"	F-415	F-415	25 1/2"	14-FT
DT-6170-H	U3	Gas	66"	F-415	F-415	64 1/2"	14-FT
DT-6170-L	T4	Gas	8"	F-415	F-415	6 1/2"	14-FT
DT-6170-F	K-EL	Gas	58"	F-415	F-415	56 1/2"	14-FT
DT-6170-A	T2-O4-U2	Air	32 1/2"	F-415	F-415	31"	14-FT
DT-6170-K	T3-T4-T6-U4-K2-S2	Oil	22 1/2"	F-415	F-415	20 3/4"	14-FT
DT-6170-D	U3	Gas	49 1/2"	F-415	F-415	47 3/4"	14-FT
DT-6170-Q	303-503	Oil	40"	F-415	F-415	38 1/2"	14-FT
DT-6170-G	T2-O4-U2-U3-S	Gas	63"	F-415	F-415	61 1/2"	14-FT
DT-6170-B	T2-O4-U2	Oil	35 1/2"	F-415	F-415	34"	14-FT
DT-6170-M	T3C-T4C-U6	Oil	29"	F-415	F-415	27 1/2"	14-FT
FEDERAL TRUCKS							
1-A-9299	D	Oil	11"	F-484	F-484	9 1/2"	13-FT
1-A-8970	A6-T2W	Oil	21 3/8"	F-484	F-414	21 1/8"	13-FT
1-A-8681	FW2-FW3	Oil	12 3/8"	F-484	F-414	10 3/8"	13-FT
1A-5441	X8	Oil	5 1/2"	F-414	F-414	5 1/8"	13-FT
1A-8688	T60-TW-A6	Oil	26"	F-484	F-414	26 1/2"	13-FT
2A-5103	X8	Gas	42 3/8"	F-415	F-415	40 3/8"	14-FT
1A-5442	X8	Oil	18 3/8"	F-414	F-414	16 3/8"	13-FT
1A-8677	T2	Oil	17 3/8"	F-414	F-414	17 1/8"	13-FT
1A-5444	X8	Gas	40 3/8"	F-415	F-415	39 1/8"	14-FT
1A-9663	15A-20A-25A-30A-40A	Oil	5"	F-284	F-284	4 1/4"	13-FT
2A-5104	X8	Gas	69 3/8"	F-415	F-415	67 3/8"	14-FT
1A-5443	X8	Oil	9 3/8"	F-414	F-414	7 3/8"	13-FT
2A-5102	X8	Air	41 3/8"	F-414	F-414	39 3/8"	13-FT

Mfg. Part No.	Mfg. Model No.	Type of Line	Overall Length of Line	Cat. No. of Fitting on One End	Cat. No. of Fitting on Other End	Length of Flexible Hose	Catalog Number of Hose
GENERAL MOTORS TRUCKS							
234715	Std. Cab.	Oil	35"	F-415	F- 30	33 $\frac{3}{4}$ "	14-FT
638385	T20	Oil	31"	F-414	F-414	29 $\frac{1}{2}$ "	13-FT
237879	Cab-T20	Gas	36"	F-416	F-416	34 $\frac{1}{2}$ "	15-FT
309980	Cab-T20	Gas	12 $\frac{1}{2}$ "	F-416	F-416	10 $\frac{3}{4}$ "	15-FT
707413	Cab-T20	Gas	17 $\frac{1}{4}$ "	F-416	F-416	15 $\frac{1}{2}$ "	15-FT
234638	T1-T3	Gas	18"	F-415	F- 31	16 $\frac{5}{8}$ "	14-FT
251814	T20	Oil	45"	F-414	F-414	47 $\frac{1}{2}$ "	13-FT
234609	T20	Oil	20"	F-415	F- 30	18 $\frac{3}{4}$ "	14-FT
284074	T1-T3	Gas	177"	F-416	F-416	175 $\frac{1}{4}$ "	15-FT
667833	T20-T2	Gas	17"	F-416	F- 15	15 $\frac{1}{2}$ "	15-FT
234770	W	Gas	12"	F-416	F-486	10 $\frac{5}{16}$ "	15-FT
*797607	T2-T3	Gas	29"	F-416	F-415		
*797608	T1-T2-T3	Gas	11 $\frac{1}{2}$ "	F-416	F-415		
284076		Oil	16 $\frac{1}{2}$ "	F-415	F-415	15"	14-FT
*797414	T20-T1-T2	Gas	25"	F-416	F-415		
*672849	Std.-Master	Gas	42"	F-418	F-415		
658385		Oil	31"	F-414	F-414	29 $\frac{1}{2}$ "	13-FT
720314	T1-T2	Air	14"	F-418	F-418	11 $\frac{3}{4}$ "	14-FT
284430	T20-T3	Gas	20"	F-416	F-416	18 $\frac{1}{2}$ "	15-FT
234417	T1-T2	Gas	38"	F-415	F- 31	36 $\frac{3}{8}$ "	14-FT
721016	T3-T2	Gas	15 $\frac{3}{4}$ "	F-418	F-418	13 $\frac{1}{2}$ "	16-FT
309980		Gas	12 $\frac{1}{2}$ "	F-416	F-416	10 $\frac{3}{4}$ "	15-FT
312789	T20	Air	24"	F-416	F-416	22 $\frac{1}{2}$ "	15-FT
292246	Z	Grease	27"	F-415	F-415	25 $\frac{1}{2}$ "	14-FT
659515	T42-T60-T80	Oil	30 $\frac{1}{2}$ "	F-414	F-414	31"	13-FT
658385		Oil	31"	F-414	F-414	29 $\frac{1}{2}$ "	13-FT
653490	Cab	Gas	50"	F-415	F-415	48 $\frac{1}{2}$ "	14-FT
234716	T1-T2	Oil	38"	F-415	F- 30	36 $\frac{3}{8}$ "	14-FT
293166	Z	Oil	25"	F-415	F-415	23 $\frac{1}{2}$ "	14-FT
285128	Std.-Master	Gas	48"	F-416	F-416	46 $\frac{1}{4}$ "	15-FT
653793	K-17-K-32-K-52-K-7-2K-102	Oil	42"	F-414	F-414	40 $\frac{1}{2}$ "	13-FT
292795	T20	Oil	88"	F-416	F- 32	86 $\frac{3}{4}$ "	15-FT
234716		Gas	38"	F-415	F- 30	36 $\frac{3}{8}$ "	14-FT
799238	T1-T20-Std.	Gas	14"	F- 15	F-416	12 $\frac{1}{2}$ "	15-FT
309231	T20-T3	Gas	29"	F-416	F-416	27 $\frac{3}{4}$ "	15-FT
663711	Std.-Master	Oil	43"	F-414	F-414	43 $\frac{1}{2}$ "	13-FT
249197	T1-T2-T20	Gas	19 $\frac{1}{4}$ "	F- 10	F-484	18 $\frac{1}{2}$ "	13-FT
678102	Std.-Master	Gas	8"	F-418	F-418	5 $\frac{3}{4}$ "	16-FT
285128		Gas	45"	F-416	F-416	43 $\frac{1}{4}$ "	15-FT
648228	T20	Gas	43"	F-416	F- 15	41 $\frac{1}{2}$ "	15-FT
314443	YZ	Gas	38"	F-415	F-415	36 $\frac{1}{2}$ "	14-FT
285134	Y	Gas	21"	F-415	F-415	19 $\frac{1}{2}$ "	14-FT
296225	T2	Gas	87"	F-416	F-416	85 $\frac{1}{4}$ "	15-FT
285133		Gas	25"	F-416	F-416	23 $\frac{3}{4}$ "	15-FT
659514	T30	Oil	34"	F-414	F-414	34 $\frac{1}{2}$ "	13-FT
658386	T20-T40-T50	Oil	24"	F-414	F-414	22 $\frac{1}{2}$ "	13-FT
284076	T20-T1-T2	Oil	16 $\frac{1}{2}$ "	F-415	F-415	15"	14-FT
234638	Std. Master-T20	Gas	15"	F-415	F- 31	16 $\frac{5}{8}$ "	14-FT
658391	T40-T50	Oil	26"	F-414	F-414	24 $\frac{1}{2}$ "	13-FT
658387	T20-T40-T50	Oil	14"	F-414	F-414	12 $\frac{1}{2}$ "	13-FT
247083	WF-WG	Oil	9"	F- 10	F-414	7 $\frac{1}{2}$ "	13-FT
284431	T1-T2-T3-T20	Gas	145"	F-416	F-416	143 $\frac{3}{4}$ "	15-FT
653509	K102	Gas	80"	F-414	F-414	78 $\frac{1}{2}$ "	13-FT
683092	T85-T95	Gas	30"	F-416	F- 15	28 $\frac{1}{2}$ "	15-FT
677781	T85-T95	Gas	24"	F-416	F- 15	22 $\frac{1}{2}$ "	15-FT
DODGE (GRAHAM) TRUCKS							
522095		Gas	12"	F-485	F- 30	10 $\frac{3}{4}$ "	14-FT
522096		Gas	22"	F-485	F-415	20 $\frac{3}{4}$ "	14-FT
536845	DB1	Oil	9 $\frac{3}{4}$ "	F-483	F-414	8 $\frac{3}{4}$ "	13-FT
526203	DB1	Air	18"	F-615	F-485	16 $\frac{1}{2}$ "	14-FT
526255	U1-DA1	Oil	8"	F-415	F-485	6 $\frac{1}{2}$ "	14-FT
517150	Std. 77	Gas	8"	F-483	F-483	6 $\frac{3}{4}$ "	13-FT
526272		Gas	10"	F-615	F-485	8 $\frac{3}{4}$ "	14-FT
525095	DA1-DA1 $\frac{1}{2}$	Gas	10"	F-415	F-485	8 $\frac{3}{4}$ "	14-FT
520179		Air	18"	F-415	F-485	16 $\frac{1}{2}$ "	14-FT
522096		Oil	14"	F-483	F-414	12 $\frac{3}{8}$ "	13-FT
522093	Light Six	Oil	8"	F-483	F-483	6 $\frac{3}{4}$ "	13-FT
522097		Air	18"	F-485	F-415	16 $\frac{1}{2}$ "	14-FT
519834	Light Si	Gas	10"	F-485	F-415	8 $\frac{3}{4}$ "	14-FT
512828		Gas	12"	F-415	F-485	10 $\frac{3}{4}$ "	14-FT
517541	Std. 77	Oil	14"	F-414	F-483	12 $\frac{3}{8}$ "	13-FT
517779		Oil	8"	F-484	F-483	6 $\frac{3}{8}$ "	13-FT
512831		Oil	14"	F-414	F-484	12 $\frac{3}{8}$ "	13-FT
512830		Air	18"	F-414	F-484	16 $\frac{1}{2}$ "	13-FT
512829	Std. 77	Gas	22"	F-415	F-485	20 $\frac{3}{4}$ "	14-FT
RELAY TRUCKS							
104397	30	Oil	45"	F-414	F-414	43 $\frac{1}{2}$ "	13-FT
115744	70-50A-61L	Oil	36"	F- 10	F- 28	34 $\frac{3}{4}$ "	13-FT
102960	KBT-CBR	Oil	12"	F-484	F-414	10 $\frac{3}{4}$ "	13-FT
	KB30	Oil	42"	F-414	F-414	40 $\frac{3}{4}$ "	13-FT

Mfg. Part No.	Mfg. Model No.	Type of Line	Overall Length of Line	Cat. No. of Fitting on One End	Cat. No. of Fitting on Other End	Length of Flexible Hose	Catalog Number of Hose
INDIANA TRUCKS							
15220	20-25-35	Gas	29"	F-414	F-414†	29½"	13-FT
9992	126-41	Air	18½"	F-415	F-415	17½"	14-FT
8334	Class B	Gas	42"	F-416	F-416	40½"	15-FT
55314	11-111-115	Gas	36"	F-415	F-415	34½"	14-FT
*2715	Class B	Oil	62½"	F-414	F-416	.....	.....
57487	111	Oil	43"	F-415	F-415	41½"	14-FT
26143		Oil	37½"	F-414	F-414†	38"	13-FT
9993	126	Gas	30"	F-415	F-415	28½"	14-FT
26434	615	Oil	40½"	F-415	F-415	39"	14-FT
17808	41	Gas	32½"	F-414	F-414†	32½"	13-FT
12762	126	Gas	27"	F-415	F-415	25½"	14-FT
1664	Class B	Gas	28"	F-416	F-416	26½"	15-FT
27981	11-120	Gas	23½"	F-414	F-414	22½"	13-FT
26993		Gas	72"	F-414	F-414	70½"	13-FT
10238	20-25-35	Gas	32½"	F-414	F-414†	30½"	13-FT
13023	12	Oil	20½"	F-414	F-414†	20½"	13-FT
55044	10	Oil	32½"	F-414	F-414†	33"	13-FT
1565		Gas	104½"	F-416	F-416	103"	15-FT
20242	51-52-40	Gas	28½"	F-414	F-414	27½"	13-FT
17808	40	Gas	32½"	F-414	F-414†	32½"	13-FT
9994	126	Gas	25"	F-415	F-415	23½"	14-FT
13024	20-25-35-51	Gas	41"	F-414	F-414†	41½"	13-FT
32208	41	Oil	14½"	F-414	F-414	14½"	13-FT
10235	20-25-35	Gas	43½"	F-414	F-414†	44"	13-FT

INTERNATIONAL HARVESTER TRUCKS AND TRACTORS

14851-DB	Tractor	Gas	9"	F-415	F-415	7½"	14-FT
51729-V	S-364-S6	Gas	14½"	F-415	F-415	13½"	14-FT
52283-V	X	Gas	15"	F-415	F-415	15½"	14-FT
11522-DB	Tractor	Gas	15½"	F-415	F-415	14½"	14-FT
11523-DA	Tractor	Gas	17½"	F-415	F-415	16"	14-FT
22744-VB	S-26-SD-36-SL36-SF-36-SF-46	Gas	35½"	F-415	F-415	36½"	14-FT
*18323-H	HS-54-HS-54C-KS-74-HS74C	Gas	31½"	F-414	None	.....	.....
11898-BD	Tractor	Oil	10½"	F-414	F-414	8½"	13-FT
51727-V	S	Gas	18½"	F-415	F-415	19½"	14-FT
X-949-2	HS-54	Gas	86"	F-416	F-416	84½"	15-FT
X-949-1	HS-54	Gas	20½"	F-415	F-415	19"	14-FT
52891-V	S	Gas	17½"	F-415	F-415	16"	14-FT
52890-V	B2-S24-A2-A3-A4-A5-A6	Gas	16"	F-415	F-415	14½"	14-FT
20906-H	W1-W2-W3-W4	Gas	15"	F-415	F-415	13½"	14-FT
53301-V	B2-S24-A2-A3-A4-A5-A6	Gas	25"	F-415	F-415	23½"	14-FT
15951-DA	Tractor	Oil	10"	F-414	F-414	8½"	13-FT
22174-V	S	Gas	19½"	F-415	F-415	18"	14-FT
*21347-H	HS-W1	Oil	28½"	F-414	F-485	.....	.....
14490-HA	63-103	Gas	13"	F-415	F-415	11½"	14-FT
14568-HA	Tractor	Gas	30"	F-415	F-415	28½"	14-FT
18393	B2-S24-A2-A3-A4-A5-A6	Gas	19"	F-415	F-415	17½"	14-FT
52892-V	S	Gas	12"	F-415	F-415	10½"	14-FT
23651-VA	S24-SL34-SD34-SF34-SE34	Gas	30½"	F-415	F-415	30½"	14-FT
52284-V	S	Gas	21"	F-415	F-415	21½"	14-FT
14852-DA	Tractor	Gas	26½"	F-415	F-415	25"	14-FT
22157-V	S	Gas	22½"	F-415	F-415	21"	14-FT
23651-V	S24-SL34-SD34-SF	Gas	42"	F-415	F-415	40½"	14-FT
14492-HA	63-103	Gas	24"	F-415	F-415	22½"	14-FT
22176-V	S	Gas	15½"	F-415	F-415	14"	14-FT
22177-V	S	Gas	12½"	F-415	F-415	11½"	14-FT
11663	SF46	Oil	36"	F-415	F-415	34½"	14-FT

YELLOW TRUCK AND COACH BUSES

135946	Z	Air	80"	F-415	None	79½"	14-FT
294850	Y-YR-YD	Gas	110"	F-416	F-416	108½"	15-FT
284430	YZ-Z	Gas	20"	F-416	F-416	18½"	15-FT
292245		Air	23"	F-415	F-415	21½"	14-FT
234417		Gas	38"	F-415	F- 31	36½"	14-FT
139023	YZ-DD-SD	Gas	24"	F-416	F-416	22½"	15-FT
161257	Y-Z	Gas	87"	F-416	F-416	85½"	15-FT
283560		Gas	16½"	F-415	F-415	15"	14-FT
135945	Z-YZ-SD	Gas	16½"	F-415	F-415	15"	14-FT
135943	Z	Gas	145"	F-416	F-416	143½"	15-FT
137465	Y-Z-YZ	Gas	195"	F-416	F-416	193½"	15-FT
137248	YZ-SD	Air	30"	F-416	F-416	28½"	15-FT
137925	YZ-SD-DD	Oil	63"	F- 32	F-416	61½"	15-FT
285134	Y	Gas	21"	F-415	F-415	19½"	14-FT
138989	Y	Oil	88"	F-416	F- 32	86½"	15-FT
137246	YZ	Gas	177"	F-416	F-416	175½"	15-FT
135944	YZ-Z	Gas	20"	F-416	F-416	18½"	15-FT
285133	YZ-SD-DD	Gas	25"	F-416	F-416	23½"	15-FT
285128	YZ-SD-DD	Gas	48"	F-416	F-416	46½"	15-FT
138880	YZ-SD-DD	Gas	48"	F-416	F-416	46½"	15-FT
36-3K-16		Oil	25½"	F-414	F-414	23½"	13-FT
291848	AL-Z	Gas	26½"	F-416	F-416	24½"	15-FT
292162	YZ-SD-DD	Gas	185"	F-416	F-416	183½"	15-FT
139022	YZ-SD-DD	Gas	23"	F-416	F-416	21½"	15-FT
139021	YZ-SD-DD	Air	49"	F-416	F-416	47½"	15-FT

Mfg. Part No.	Mfg. Model No.	Type of Line	Overall Length of Line	Cat. No. of Fitting on One End	Cat. No. of Fitting on Other End	Length of Flexible Hose	Catalog Number of Hose
MACK-INTERNATIONAL MOTOR TRUCKS							
2-BJ-24	BJ	Gas	20"	F- 15	F-486	18 $\frac{1}{2}$ "	15-FT
2-BK-1120	AB-CI-BK	Gas	16"	F-416	F-416	14 $\frac{1}{2}$ "	15-FT
2-AL-1358	AL	Gas	14"	F-416	F- 15	12 $\frac{1}{2}$ "	15-FT
2-BJ-249	BJ	Gas	16"	F- 15	F-486	14 $\frac{1}{2}$ "	15-FT
2-BK-1150	BK	Gas	8 $\frac{1}{2}$ "	F-416	F-416	6 $\frac{3}{4}$ "	15-FT
2-BB-130A	AK-AP-SP-BJ-BB	Gas	11"	F- 15	F-486	9 $\frac{1}{2}$ "	15-FT
2-BB-19A	BB	Gas	13 $\frac{1}{2}$ "	F- 15	F-416	12 $\frac{1}{2}$ "	15-FT
2-BC-157	BC	Air	13 $\frac{1}{2}$ "	F-485	F-485	12"	14-FT
2-BK-1119	BK	Gas	55 $\frac{1}{2}$ "	F-416	F-416	53 $\frac{1}{2}$ "	15-FT
10-BK-173	BK	Air	9"	F- 17	F-418	7 $\frac{3}{8}$ "	16-FT
6-AB-1261	BC-AC-BB-AK-AB	Oil	13 $\frac{1}{2}$ "	F-484	F-484	12"	13-FT
6-AL-1246	BG-BL-BK-AJ-AL	Gas	13 $\frac{1}{2}$ "	F- 10	F-484	12 $\frac{1}{2}$ "	13-FT
2-BK-1121	AB-BK	Gas	11 $\frac{1}{2}$ "	F-416	F-416	9 $\frac{1}{2}$ "	15-FT
2-BK-1124	BK	Gas	49"	F-416	F-416	47 $\frac{1}{2}$ "	15-FT
2-BB-19	BB	Gas	24 $\frac{1}{4}$ "	F- 15	F-416	22 $\frac{3}{4}$ "	15-FT
2-BK-1117	BK	Air	19"	F-416	F-416	17 $\frac{1}{2}$ "	15-FT
2-BK-1118	BK	Air	60"	F-416	F-416	58 $\frac{1}{4}$ "	15-FT
REO TRUCKS							
*3-GH-4A	GA-GB-GC	Gas	20"	F-414	F-485		
*3-GH-4B	GA-GB-GC	Gas	22"	F-414	F-485		
3-GH-2	GA-GB-GC-GD	Gas	20"	F-414	F-414	18 $\frac{1}{2}$ "	13-FT
6-FA-32	GA-GB-GC-GD-FA-FC-FD-FE-FF	Oil	9"	F-414	F-484	7 $\frac{1}{2}$ "	13-FT
3-GH-7	GA-GB-GC	Gas	20"	F-414	F-484	18 $\frac{1}{2}$ "	13-FT
3-FB-30	GA-GB-GC-GD-GE-FA-FB-FC-FD-FE-FF-FH	Oil	10 $\frac{1}{2}$ "	F- 10	F- 10	9 $\frac{1}{4}$ "	13-FT
3-GH-3	GA-GB-GC-GD	Gas	20"	F-414	F- 10	18 $\frac{1}{2}$ "	13-FT
WHITE TRUCKS AND BUSES							
A-17118	20A-15B	Oil & Air	18"	F-415	F-415	18 $\frac{1}{2}$ "	14-FT
A-19265	63-64	Gas	36"	F-415	F-415	36 $\frac{1}{2}$ "	14-FT
A-16878	54	Oil	34"	F-415	F-415	34 $\frac{1}{2}$ "	14-FT
A-19402	65-65A	Oil	30 $\frac{1}{2}$ "	F-415	F-415	32"	14-FT
B-7006	58-58A	Gas	20"	F-415	F-415	18 $\frac{1}{2}$ "	14-FT
A-17409	54	Oil	29"	F-415	F-415	29 $\frac{1}{2}$ "	14-FT
A-16877	56-54	Oil	12"	F-415	F-415	10 $\frac{1}{2}$ "	14-FT
A-17119	54-15B	Gas	16 $\frac{1}{2}$ "	F-415	F-415	15"	14-FT
B-8221	54-15B	Gas	22"	F-415	F-415	20 $\frac{1}{2}$ "	14-FT
A-9988		Gas	17"	F-415	F-415	17 $\frac{1}{2}$ "	14-FT
AHRENS-FOX FIRE ENGINE							
	MS-2	Gas	71 $\frac{1}{2}$ "	F-416	F-416	69 $\frac{1}{2}$ "	15-FT
	MS-2	Gas	59 $\frac{1}{4}$ "	F-416	F-416	51 $\frac{1}{2}$ "	
AUTOCAR COMPANY							
16TE2565		Oil	7 $\frac{1}{2}$ "	F- 12	F-484	6"	13-FT
16TE2565-A		Oil	13 $\frac{1}{2}$ "	F- 12	F-484	12"	13-FT
6N3750		Gas	11 $\frac{1}{2}$ "	F-416	F- 15	10"	15-FT
6D3750		Gas	20"	F-416	F- 15	18 $\frac{1}{2}$ "	15-FT
6RE3750		Gas	13"	F-416	F- 15	11 $\frac{1}{2}$ "	15-FT
6N3740		Gas	8 $\frac{1}{2}$ "	F-486	F- 15	7"	15-FT
6ZC3650		Gas	29 $\frac{1}{2}$ "	F-416	F-416	28"	15-FT
6ZF3650		Gas	9 $\frac{1}{2}$ "	F-416	F-416	8"	15-FT
6ZF3650-A		Gas	7 $\frac{1}{2}$ "	F-416	F-416	5 $\frac{1}{2}$ "	15-FT
6ZN3650		Gas	17 $\frac{1}{2}$ "	F-416	F-416	16"	15-FT
6ZF3650-B		Gas	11 $\frac{1}{2}$ "	F-416	F-416	10"	15-FT
GENERAL MOTORS							
052600	T-23	Gas	43 $\frac{1}{2}$ "	F-415	F-415	42"	
284076	T-75 T-78	Gas	22 $\frac{1}{2}$ "	F-415	F-415	21"	
DIAMOND T TRUCK							
DT-4163-A		Gas & Oil	15"	F- 10	F-884	13 $\frac{1}{2}$ "	13-FT
DODGE (GRAHAM) TRUCKS							
522094		Oil	14"	F-483	F-414	12 $\frac{1}{2}$ "	13-FT
526149	ME	Air	10 $\frac{1}{2}$ "	F-485	F-315	8 $\frac{1}{4}$ "	14-FT
527029	DAC-133	Gas	8 $\frac{1}{4}$ "	F-485	F-485	6 $\frac{1}{4}$ "	14-FT
527030	DAC-133	Gas	19 $\frac{1}{2}$ "	F- 14	F-315	18"	14-FT
527836	DAC-133	Oil	5 $\frac{1}{2}$ "	F-483	F-413	4"	13-FT
INDIANA							
20242	51-52-40	Gas	28 $\frac{1}{2}$ "	F-414	F-414	27"	13-FT
MACK INTERNATIONAL MOTOR TRUCKS							
6-AB-1266	BL-BT-BK-BG-AB	Oil	13 $\frac{1}{2}$ "	F- 10	F-684	12 $\frac{1}{4}$ "	13-FT

*Price on Application.
 †49-F- $\frac{1}{4}$ O.D. x $\frac{1}{4}$ I.P.T.
 ‡48-F- $\frac{1}{4}$ O.D. x $\frac{1}{4}$ I.P.T.
 §48-F- $\frac{1}{4}$ O.D. x $\frac{1}{4}$ I.P.T.

Imperial Motor Cleaners

(Pistol Grip Type)

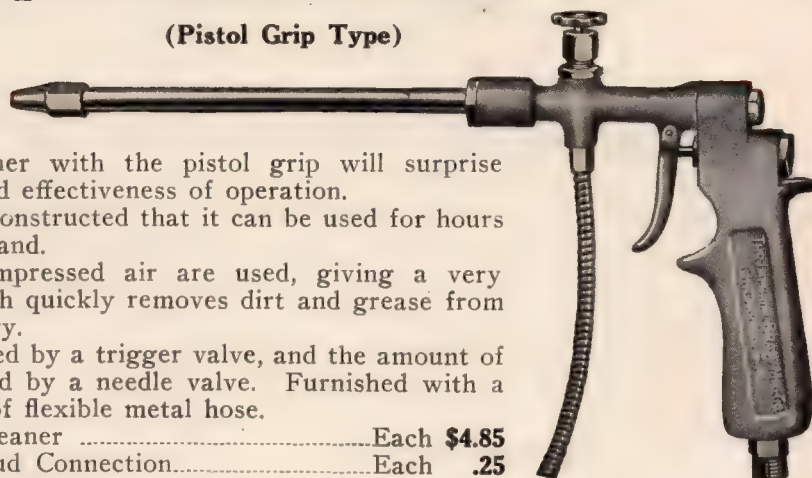
This Motor Cleaner with the pistol grip will surprise you with its ease and effectiveness of operation.

The handle is so constructed that it can be used for hours without tiring the hand.

Kerosene and compressed air are used, giving a very powerful spray which quickly removes dirt and grease from motor and machinery.

The air is controlled by a trigger valve, and the amount of kerosene is regulated by a needle valve. Furnished with a six (6) foot length of flexible metal hose.

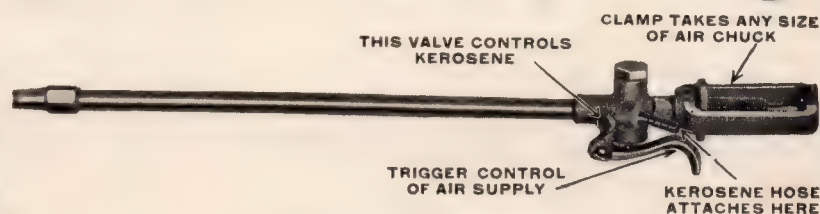
No. 37-C Motor Cleaner Each **\$4.85**
No. 28502 Hose Spud Connection..... Each **.25**



AIR HOSE

12½ or 25 ft. lengths
Air Hose with con-
nections, per foot
nections.

Per foot **\$0.20**



This Motor Cleaner which operates on the ejector principle, throwing a powerful spray of kerosene mixed with compressed air, quickly removes grease and dirt from motors and machinery. Springs can be oiled quickly and effectively with this cleaner. The trigger control is used to regulate the amount of air or shut it off entirely. The flow of kerosene is controlled by a small valve on the side of the body casting.

Furnished with a 6-foot length of flexible metallic hose. The air chuck attachment No. 51-C is for attaching to any size air chuck.

Packed one to a box.

No. 32-C Motor Cleaner, complete..... Each **\$3.00**



No. 51-C Air Chuck Attachment..... Each **\$1.00**

It is not necessary to have a separate air line to each of your shop equipment tools which are operated by compressed air.

The No. 51-C Imperial Air Chuck Attachment can be attached to the air inlet of the tool to be operated, and your regular air line tire chuck is clamped into the chuck attachment. The outlet of the attachment is furnished for either ⅜ in. male or female iron pipe thread. If a ¾ in. female iron pipe thread end is desired, specify this when ordering or use No. 119-B ¾ in. Imperial Brass Pipe Coupling.

Hose Connections



Cat. No.	Female Iron Pipe Thread	For Inside Diam. of Hose
201-C	¼"	⅝"
201-C	¾"	⅞"
201-C	¾"	1"
Price, Each.....	\$0.25	

Cat. No.	Male Iron Pipe Thread	For Inside Diam. of Hose
209-C	¼"	¾"
209-C	¼"	⅞"
209-C	¾"	1"
209-C	¾"	1 1/8"
Price, Each.....	\$0.25	



IMPERIAL PRODUCTS

Spring Oiler



The modern service station can greatly increase their business with this new spring oiler.

The next time a car is driven into your station to have the oil changed, have one of your attendants oil the springs and other hard-to-get-at parts of the car while the oil is being drained from the crank case. It will only take a few minutes with this new oiler, and you will build up a lot of good will with your trade.

No. 35-C Complete with metal container, special oil regulating valve, trigger air valve, pistol grip handle, two extra diaphragms and seat assemblies, only.....Each, **\$5.75**
 No. 28502 Hose Spud Connection.....Each, **.25**
 12½ or 25 foot lengths air Hose with connections, per foot **\$0.20**

Blow Gun



This Blow Gun (pistol grip type) is needed in every shop for cleaning gasoline and oil lines, blowing away chips, filings, dust and dirt.

It is a valuable addition to any Paint Spray Outfit for blowing moisture out of joints and crevices, also for removing dust from surfaces to be finished.

The design makes it possible to use this gun for long periods of time without tiring.

Operates on compressed air.

No. 41-A Blow GunEach **\$2.25**
 No. 28502 Hose Spud Connection.....Each **.25**

Air Nozzle



This is Imperial's latest type of Air Nozzle.

It is for use on compressed air lines to blow dirt, metal chips, clean gasoline and oil lines, etc. A simple and very effective air nozzle that fits comfortably in the palm of your hand.

Has button control air valve, and the special composition washers prevent leakage.

Furnished in white nickel finish with two extra washers.
 No. 42-A Air nozzle.....Price, each, **\$1.50**

Extra Parts

Nozzle only No. 19873

Price, each.....**\$0.25**

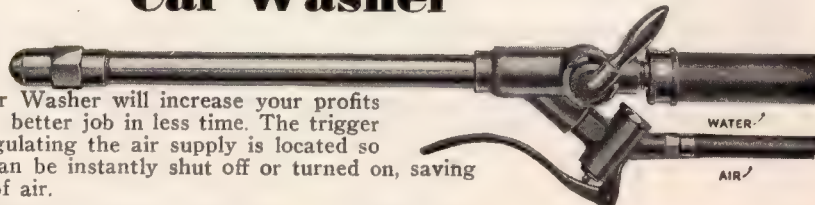
Washers only No. 28776

Price, each.....**\$0.05**

For hose connection to fit this nozzle see No. 209-C on page 25-A.

If a ¼-inch male iron pipe thread is desired at inlet also, order a No. 140-C Nipple Price, each **\$0.30**

Car Washer



The new Imperial Car Washer will increase your profits as it is designed to do a better job in less time. The trigger control air valve for regulating the air supply is located so that the supply of air can be instantly shut off or turned on, saving a considerable amount of air.

Simply attach Car Washer to water hose and air line and it is ready for any car washing job.

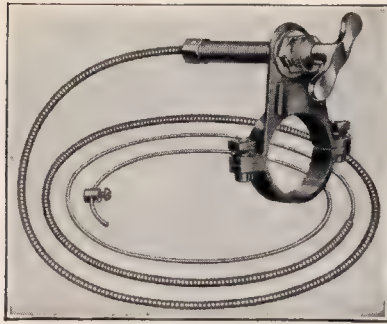
The water valve is also conveniently located and by manipulating these two valves any graduation from a **solid stream of water to a fine mist can be obtained.**

The solid stream is desirable for washing the under side of fenders, wheels, springs, etc., while the fine mist is better for body washing.

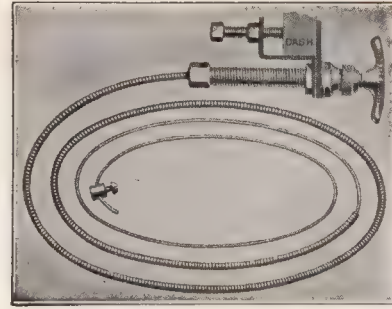
The Imperial Car Washer is strongly constructed of brass and its working parts are simple. It is built to withstand hard usage.

No. 39-C Imperial Car Washer.....Each **\$6.85**

Heavy Duty Dash Controls



31-R for Model "A" Ford Cars



23-R and 24-R

Is used for operating heaters, cut-outs, radiator shutters, hood ventilators, chokes, etc.

The instrument panel of the Model A Ford can't be drilled, as it is a part of the gasoline tank. No drilling or cutting is necessary. Simply attach to steering column where it is within easy reach of the driver.

Extra strong for heavy duty work. Operates easily and positively.

The maximum travel is $2\frac{3}{4}$ inches and a simple twist of the handle either to the right or left locks it securely in any desired position. Furnished complete as shown with three feet of flexible tubing, five feet of $\frac{1}{8}$ inch wire and adjustable stop. Weight approximately one pound.

No. 31-R Dash Control.....Each \$1.75

This big and strong heavy duty dash control with large handle is just the thing for stubborn cut-outs and heater valves, radiator shutters, chokes, etc.

A simple twist of the handle either right or left locks it securely in any desired position and the maximum travel is $2\frac{3}{4}$ inches.

Furnished complete as shown above with 66 inches of flexible tubing, 96 inches of $\frac{1}{8}$ inch wire and adjustable stop.

Steel clamp makes it possible to mount instrument board without drilling. All exposed parts heavily nickel plated and beautifully polished. Weight approximately one pound.

No. 23-R Heavy Duty Clamp-On Dash ControlEach \$1.75

No. 24-R Heavy Duty Dash Control without ClampEach 1.50

No. 27-R Clamp onlyEach .50

Imperial Choke Control

For Adjusting Chokes, Heater Valves, Vaporizers, Etc.



This control is used for adjusting carburetors, valves, vaporizers, etc., and is similar to control used as standard equipment on many cars.

The plunger has a maximum travel of $1\frac{3}{8}$ inches and a slight bend can be made in the tubing so that an accurate adjustment may be obtained.

This device is easily installed on the dash by simply drilling one hole $\frac{3}{8}$ " in diameter, and is held in place by a lock nut. It is furnished with a 66" length of $\frac{1}{8}$ " flexible tubing and an 88" length of $\frac{1}{8}$ " wire.

These lengths will be found sufficient for all requirements and the tubing and wire may be cut off if too long.

Full nickel finish with etched plate on knob.

Weight each, 8 oz.; standard package, quantity of 6 in a box.

Cat. No. Each
No. 35-R Choke Control, complete.....\$0.75

Tank Float



Vacuum Tank Float

This float is intended for replacement on standard vacuum tanks now in use. Made of brass and, because of its rounded shape, is much stronger than floats with flat tops and bottom. It has great buoyancy, long life and is guaranteed not to leak.

No. 25-C Vacuum Tank FloatEach \$1.00

Imperial Gasoline Strainers



Nos. 159-J and 155-J

Visible Type

This strainer is designed especially for automobiles, trucks and tractors and is the visible type with a glass bowl.

Takes all of the water and dirt out of the gas, and the screen which is located at the top of the glass bowl is easily removed for cleaning. Inlet has $\frac{3}{8}$ " male iron pipe thread, and outlet is $\frac{1}{8}$ " female I.P.T. which is directly opposite the shut off needle valve.

No. 159-J Gasoline Strainer.....Each, **\$2.25**

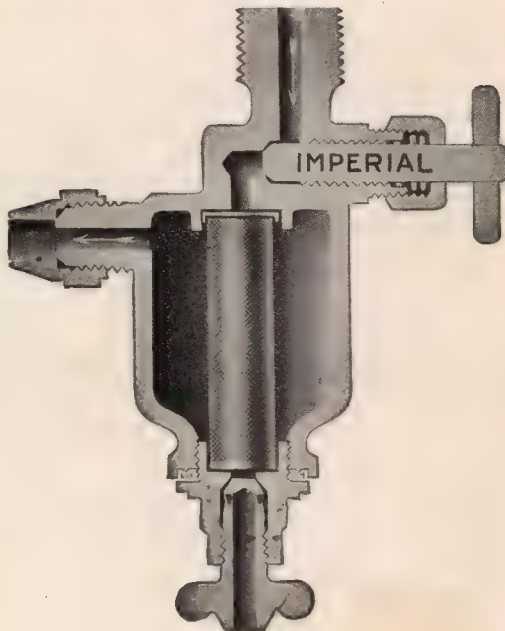
No. 155-J

The No. 155-J Visible Gasoline Strainer is practically the same as the No. 159-J excepting that it has a $\frac{1}{8}$ " female I.P.T. inlet instead of the $\frac{3}{8}$ " I.P.T. inlet. In addition, a nipple is furnished to make the inlet $\frac{1}{8}$ " male I.P.T. if desired.

No. 155-J Gasoline Strainer.....Each, **\$1.75**

For Trucks and Tractors

Imperial No. 124-J strainer has a cylindrical screen providing an unusually large straining area and is especially adapted for trucks and tractors. It is attached directly to the bottom of the fuel tank and the shut off needle valve eliminates necessity for placing a shut-off cock in fuel line for shutting off fuel. It will overcome any possibility of line or carburetor becoming clogged with dirt. Sediment trap provides a settling chamber that collects water which strainer cloth would not. It is not necessary to break your outlet tubing connection to carburetor when you want to take out screens for cleaning purposes—simply remove plug at bottom of strainer. Furnished in bright brass finish.



No. 124-J

Cat. No.

124-J	$\frac{1}{4}$ " O.D. CCx $\frac{1}{4}$ " I.P.T., net wt. per 100, 69 lbs.	\$2.46
124-J	$\frac{5}{16}$ " O.D. CCx $\frac{1}{4}$ " I.P.T., net wt. per 100, 72 lbs.	2.52
124-J	$\frac{3}{8}$ " O.D. CCx $\frac{1}{4}$ " I.P.T., net wt. per 100, 75 lbs.	2.58
124-J	$\frac{1}{4}$ " O.D. SAE without nut, x $\frac{1}{4}$ " I.P.T., net wt. per 100, 68 lbs.	2.40
124-J	$\frac{5}{16}$ " O.D. SAE without nut, x $\frac{1}{4}$ " I.P.T., net wt. per 100, 70 lbs.	2.46
124-J	$\frac{3}{8}$ " O.D. SAE without nut, x $\frac{1}{4}$ " I.P.T., net wt. per 100, 73 lbs.	2.52
124-J	$\frac{1}{4}$ " O.D. CCx $\frac{1}{2}$ " I.P.T., net wt. per 100, 74 lbs.	2.58

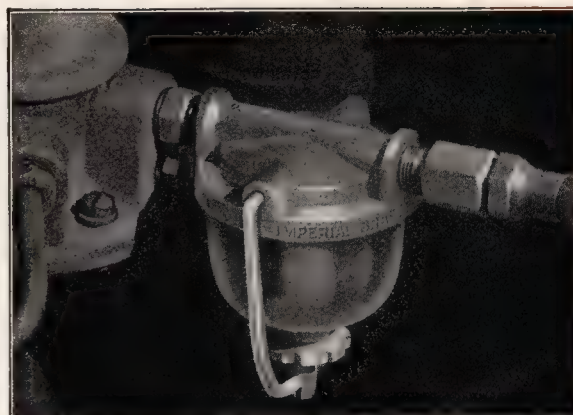
124-J	$\frac{5}{16}$ " O.D. CCx $\frac{1}{2}$ " I.P.T., net wt. per 100, 77 lbs.	\$2.64
124-J	$\frac{3}{8}$ " O.D. CCx $\frac{1}{2}$ " I.P.T., net wt. per 100, 80 lbs.	2.70
124-J	$\frac{1}{4}$ " O.D. SAE without nut, x $\frac{1}{2}$ " I.P.T., net wt. per 100, 72 lbs.	2.52
124-J	$\frac{5}{16}$ " O.D. SAE without nut, x $\frac{1}{2}$ " I.P.T., net wt. per 100, 75 lbs.	2.58
124-J	$\frac{3}{8}$ " O.D. SAE without nut, x $\frac{1}{2}$ " I.P.T., net wt. per 100, 78 lbs.	2.64

Imperial Gasoline Strainers

**Visible types, for all Model V-8
Ford Cars, 1934 Chevrolet,
1934-35 Pontiac, Etc.**

Protects Carburetor and Fuel Pump

By keeping the gasoline free from sediment and water, the Imperial strainer helps to cut down operating cost, and soon pays for itself. It prevents water and dirt from getting into the line, and guards against water freezing in the line in cold weather. Vapor-locking and freezing in winter months. It also gives added protection to the carburetor and pump. The glass bowl shows the quantity of sediment collected, and the filter screen is of monel metal, and very durable.



Cleaned in a Moment

The Imperial strainer is very easily and quickly cleaned. By turning the thumb-nut at foot, the bowl is at once released and emptied. This and other talking points make the strainer a very quick seller.

Two Types, for a Wide Range of Car Models

The Imperial strainer is made in two types—187-J, for all Model V-8 Ford cars, and 188-J, for Chevrolet 1934, Studebaker 1934-35, Pontiac 1934-35, Hudson 1935, and Terraplane 1934-35.

Simple Installation

On type 187-J, both inlet and outlet are female type, $\frac{1}{8}$ " I.P.T. The shallow bowl simplifies installation; with a deeper bowl, the outlet would require a special elbow to connect it with the inlet of the pump; also, the flow of gas would be less direct. To assemble with the Ford V-8 pump, disconnect the flexible gas line and attach the outlet of the strainer to the pump inlet with one of the fittings. Then connect the flexible line to strainer inlet with the other fitting.

No. 187-J. Strainer, complete with Fittings.....List Price Each **\$0.75**

No. 188-J. The same as 187-J, but with different fittings. For the following cars, on which a visible strainer is not standard equipment: Chevrolet 1934, Studebaker 1934-35, Pontiac 1934-35, Hudson 1935, and Terraplane 1934-35.....List Price Each **\$0.75**



Counter Display Container For Imperial Gasoline Strainers

A quick business getter, for auto supply and hardware stores, garages and repair shops. Twelve Imperial Gasoline Strainers, each packed separate, in an attractive display container, with illustration, price and car models prominently shown in two colors. $9\frac{1}{2}$ "x6 $\frac{1}{2}$ " takes up little space, and attracts attention wherever placed.

Container with 12 Imperial Gasoline Strainers, packed separate. List price per carton.....**\$9.00**

In ordering, specify whether strainer should be 187-J or 188-J, or, if a mixed set is required, how many of each.

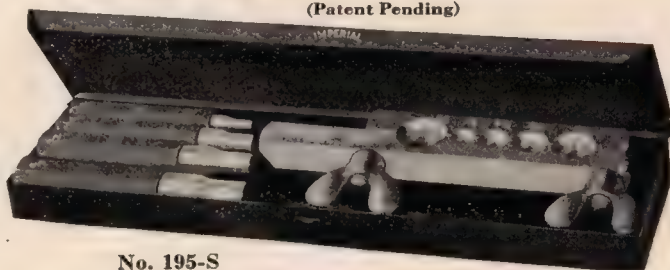
Imperial Swedging Tool Kit

(Patent Pending)

A Tight Joint in a Moment Without Using a Coupling

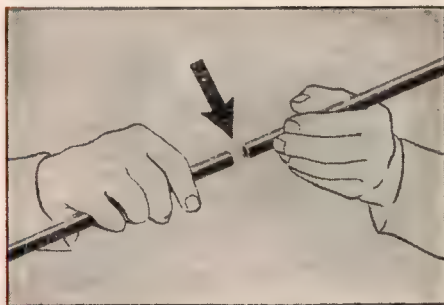
Emergency connections are quickly made with the handy tool kit shown. Two portions of tubing are easily joined in a few moments by enlarging the inner diameter of one portion to permit the insertion of the other, and both portions are then soldered together.

To make sure of smooth ends, we recommend the Imperial Tube Cutter which also has a reamer for removing any burrs from inside of tube.

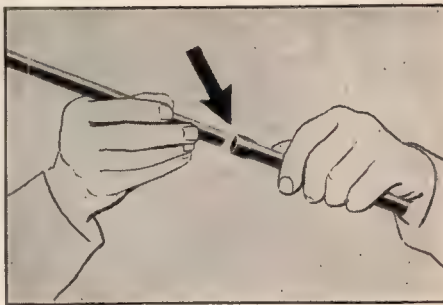


No. 195-S

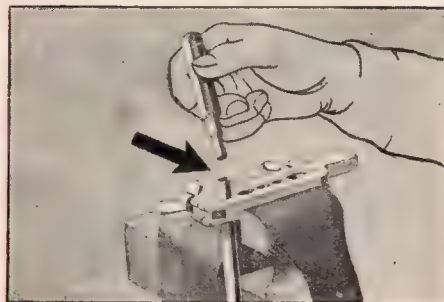
Swedging Tool Kit. 3" x 9". Weight 2 lbs.



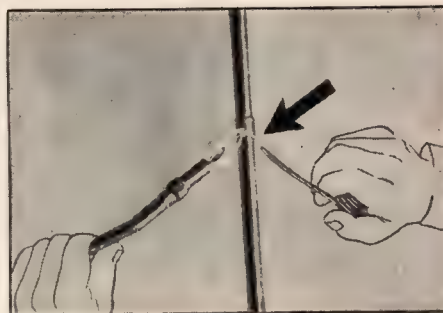
The two portions of tubing before making the joint; both diameters the same.



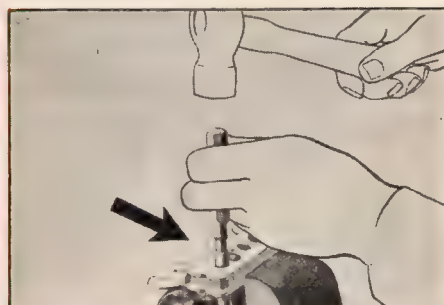
If both parts are clean, they are ready for soldering. O. D. of one equals I. D. of the other.



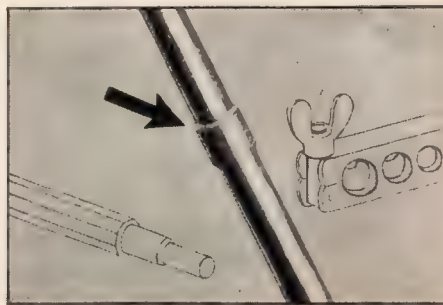
Set the portion to be widened in flaring tool bar, and set bar in vise.



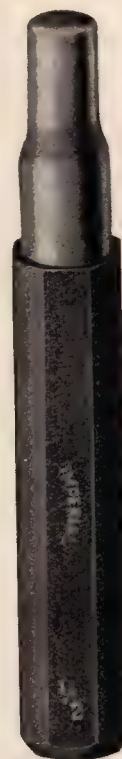
Insert smaller end-up to shoulder in larger end, and apply solder.



Choose swedging tool of diameter required, and drive into tube up to shoulder of tool.



The joint completed. Note small space occupied by joint, less than any fitting.

No. 93-S
Swedging
Tool

No. 195-S.—Swedging Tool Kit, including flaring tool bar and 4 swedging tools for $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " O. D. tube, complete in steel case.....\$6.00

No. 93-S. Swedging Tool for $\frac{1}{4}$ " tube....\$0.65 each

No. 93-S. Swedging Tool for $\frac{3}{8}$ " tube.... .70 each

No. 93-S. Swedging Tool for $\frac{1}{2}$ " tube.... .75 each

No. 93-S. Swedging Tool for $\frac{5}{8}$ " tube.... .90 each

No. 93-S. Swedging Tool for $\frac{5}{8}$ " tube.... 1.00 each

No. 93-S. Swedging Tool for $\frac{3}{4}$ " tube.... 1.05 each

No. 30231 Flaring Tool Bar only..... 2.60 each



SELF-CLOSING FAUCET



Not affected by heat or cold; holds hot or cold liquids without leaking. Automatically self-closing; cannot be left open by accident. Push lever control; the handle is so designed that operating the faucet will not tip or tilt the barrel. Easily locked in open or closed position.

No. G-261 Sette Self-Closing Faucet. $\frac{3}{4}$ " Iron Pipe

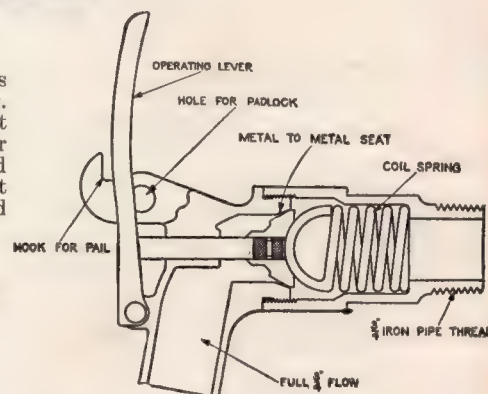
Thread. Each.....\$1.00

For Steel Drums or Barrels

Holds oil, gasoline, kerosene, alcohol, light varnishes, clear lacquers, thinners, solvents of all kinds, anti-freeze solutions and other liquids.

The Sette Faucet, though simple in design, is the only self-closing lock-lever faucet with a metal-to-metal seat (covered by basic patents). Over a million are now in use.

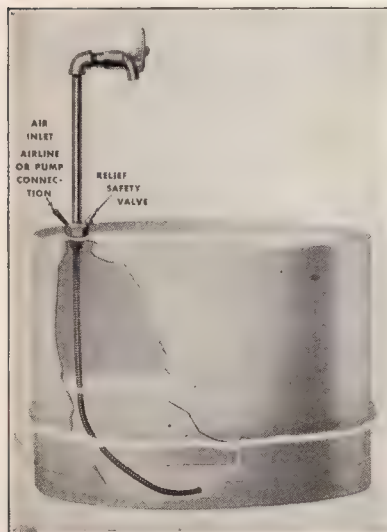
It has no leather, rubber, fiber or composition washers to cause leaks by getting worn or injured.



Imperial Liquid Dispenser

With Safety Relief Valve

**For Alcohol, Turpentine and Oils, Thinners and Cleaners
Liquid Soap, Liquid Chemicals, Etc.**



This dispenser can be easily attached to all barrels or tanks and removes all of the liquid without tipping or tilting the barrel. The barrel or tank stands upright, requiring less floor space.

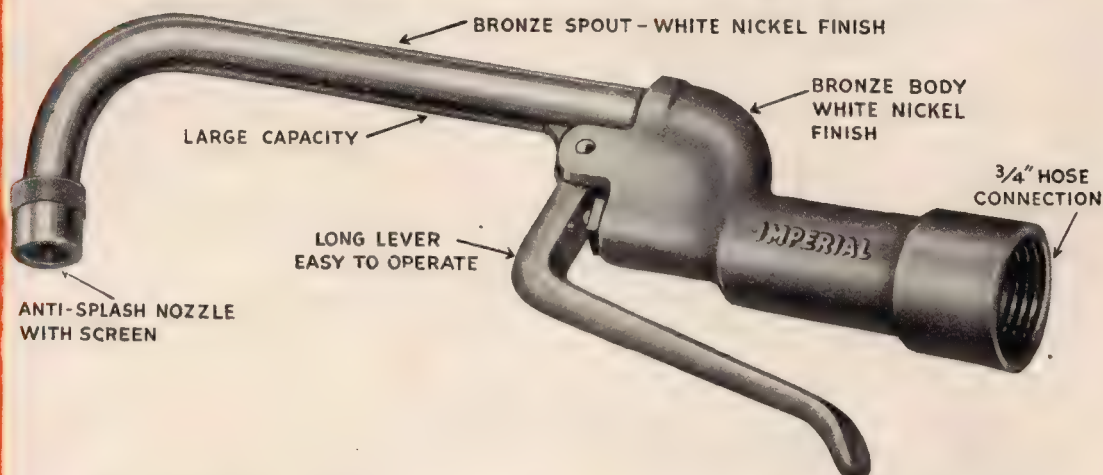
Air is put into the tank at the Schrader valve connection of the dispenser. A pressure of 10 to 15 lbs. is all that is required to force the liquid up to the faucet at the top of the dispenser. An outstanding feature of the Imperial Dispenser is the safety relief valve which does not allow an air pressure of over 20 to 25 lbs. in the tank, thus preventing any swelling of the tank which might otherwise occur from over pressure.

The faucet is the Genuine Sette Faucet which has a metal-to-metal seat, and will not deteriorate. No rubber, composition, or leather seats are used. The faucet opens by pushing the handle and the full size opening assures a large fluid stream.

This listing above shows only a few of the many kinds of liquids that can be used because of the metal-to-metal seat of the Sette Faucet.

No. 45-A Liquid Dispenser only, Each.....\$2.50

Imperial Radiator Water Faucets



No. 291-G. Extra Capacity and Long Spout Quick Filling—A Straight, Single Stream

This very convenient faucet is operated without bringing the hand near the radiator filling hole. The long spout simplifies the job, especially on cars built with the radiator cap under the hood.

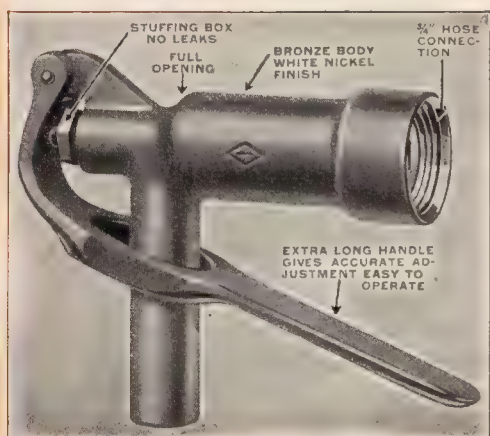
The extra capacity of the faucet shortens the work; the radiator is quickly filled without any chance of spilling. An anti-splash insert in the nozzle gives a straight, solid stream, without the spray which often occurs with the conventional type of faucet. No

water can get on the operator's hands or clothing, and the front of the car is protected from splashing. The long lever gives plenty of power without effort, and offers accurate adjustment from a fine to a heavy stream.

This faucet is self-closing and proof against leaking; a strong spring assures tight seating of the valve. Made of bronze, with white nickel finish, and threaded for $\frac{3}{4}$ -inch hose connection.

No. 291-G Radiator Water Faucet. Each\$1.25

No. 281-G Compact Type Large Capacity—A Full, Solid Stream



In this handily designed faucet, the nozzle passes through the lever, giving very compact construction. Takes up so little room that it fits comfortably into the hand.

The long lever makes operation easy and effortless, and the size of the stream can be accurately graduated from fine to heavy. The wide capacity quickens the work of filling.

Has anti-splash insert-in nozzle, which gives a straight, single stream, and prevents spilling water on hands, clothes or front of car; eliminates the uncontrolled spray that often gives trouble with other types of faucets.

Self-closing and leakproof. Made of bronze, white nickel finish, and threaded for $\frac{3}{4}$ inch hose connection.

No. 281-G. Radiator Water Faucet. Each\$1.25

Hood Fasteners



No. 17-J



No. 22-J



No. 82-J

In all three of these fasteners the center to center of rivet holes is $1\frac{1}{8}$ in. Nos. 22-J and 82-J are $4\frac{1}{8}$ in. over all in height, while the No. 17-J is $4\frac{3}{4}$ in. No. 82-J has a stop on the bottom flange to prevent falling against fender and marring finish, and a broader finger hook than the other two styles.

No. 17-JPB	Hood Fasteners, polished brass, net weight per 100, 34 lbs.	Each \$1.45
No. 17-JNP	Hood Fastener, nickel plated, net weight per 100, 34 lbs.	Each 1.50
No. 22-JPB	Hood Fastener, polished brass, net weight per 100, 19 lbs.	Each 1.45
No. 22-JNP	Hood Fastener, nickel plated, net weight per 100, 19 lbs.	Each 1.50
No. 82-JPB	Hood Fastener, polished brass, net weight per 100, 22 lbs.	Each 1.45
No. 82-JNP	Hood Fastener, nickel plated, net weight per 100, 22 lbs.	Each 1.50

Above Fasteners can also be furnished in black enamel.

Imperial Brass Hood Handles



No. 14-J

Center to center of holes is 4 inches, offset of handle is $\frac{3}{4}$ inch.

Cat. No.	Each
14-JPB Hood Handle, polished brass, net wt. per 100, 8 lbs.	\$0.46
14-JNP Hood Handle, nickel plated, net wt. per 100, 8 lbs. ....	.52



No. 22-B

Imperial Oil Gauge

Crank Case Type

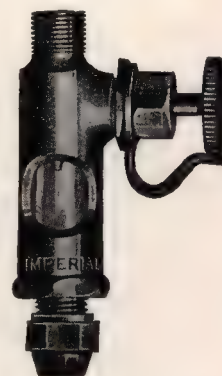
This Oil Gauge is $2\frac{15}{16}$ inches over all; length of slot, $1\frac{5}{8}$ inches. Polished brass finish.

Cat. No.	Each
22-B Crank Case Type, Oil Gauge, $\frac{1}{8}$ inch I. P. T., net weight per 100, 6 lbs.	\$1.50

Imperial Sight-Feed Oil Valve

The inlet of this Valve is $\frac{1}{8}$ inch I. P. T.; outlet, $\frac{1}{4}$ inch O. D. Flared Connection. Length, over all, $2\frac{5}{8}$ inches. Polished brass finish.

Cat. No.	Each
26-B Sight Feed Oil Valve, net weight per 100, $15\frac{1}{2}$ lbs.	\$2.50



No. 26-B

Imperial Filler Caps and Flanges For Fuel Tanks



No. 65-J

Diameter of flange is 3 inches, opening $1\frac{3}{4}$ inches. Furnished in bright brass finish.

No. 65-J Brass Filler Cap and Flange, net weight per 100, 63 lbs.....Each **\$1.50**



No. 68-J

Diameter of flange is $4\frac{3}{4}$ inches, opening $2\frac{1}{2}$ inches. Overall width of cap, including arms, is $7\frac{3}{4}$ inches. Bottom of flange is curved to a radius of 7 inches. Furnished in polished brass finish.

No. 68-J Brass Filler Cap and Flange, net weight per 100, 150 lbs.....Each **\$5.84**
Nickel platedEach **6.20**



No. 63-J

Diameter of flange is $3\frac{3}{4}$ inches, opening $1\frac{5}{8}$ inches. Furnished in bright brass finish.

No. 63-J Brass Filler Cap and Flange, net weight per 100, 67 lbs.....Each **\$1.50**



No. 66-J

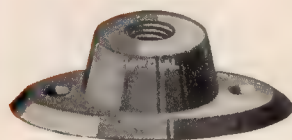
Diameter of flange is $2\frac{1}{8}$ inches, opening 2 inches. Bottom of flange is curved to a radius of 6 inches. Bright brass finish.

No. 66-J Brass Filler Cap and Flange, net weight per 100, 50 lbs.....Each **\$1.62**

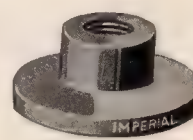
Imperial Flanges

For Use on Tanks and Automobile Radiators

Bright Brass Finish



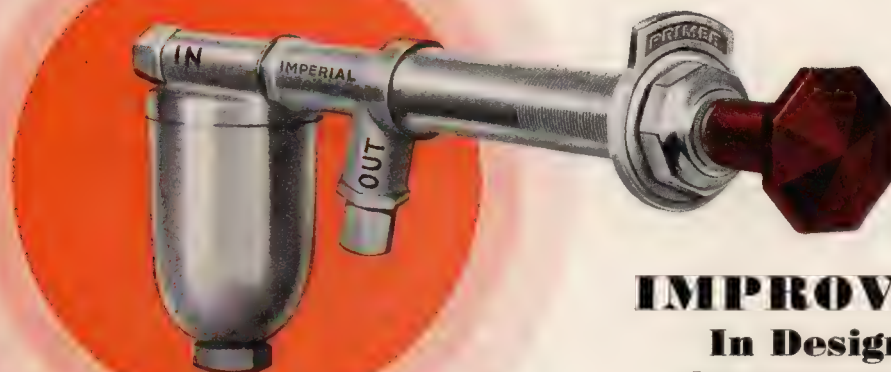
No. 70-J



No. 71-J

No. 70-J	Brass Flange, $\frac{1}{8}$ in. I. P. T., diam. of flange $1\frac{3}{4}$ in., net weight per 100, $6\frac{1}{4}$ lbs.	
	Each	\$0.28
No. 71-J	Brass Flange, $\frac{1}{4}$ in. I. P. T., diam. of flange $1\frac{1}{2}$ in., net weight per 100, 9 lbs.	
	Each .....	.34
No. 71-J	Brass Flange, $\frac{3}{8}$ in. I. P. T., diam. of flange $1\frac{3}{4}$ in., net weight per 100, 15 lbs.	
	Each .....	.60
No. 71-J	Brass Flange, $\frac{1}{2}$ in. I. P. T., diam. of flange 2 in., net weight per 100, 20 lbs.	
	Each .....	.65

The Imperial Primer



IMPROVED In Design Appearance and Performance

The new Imperial Primer will sell faster than ever before! Improved in design and in appearance, it is sure to be this season's biggest profit-maker. The new Imperial Primer is modern—as modern as next year's car models. It has a modernistic Bakelite knob and polished nickel-plate finish on all exposed metal parts. It merits a place on the most artistic instrument panel.

A reservoir has been added to the intake of the new Imperial Primer, adapting it

for use in connection with every type of fuel system—pump or vacuum tank. There is a special outfit for Models T and A Fords which does not require the reservoir.

Of course the principal feature of the new Imperial Primer is its assured efficiency. It will positively enable the owner of any car to start his motor instantly in the coldest weather—even in sub-zero temperatures. Easily and quickly installed, it's a real profit-maker.

Cnt. No.

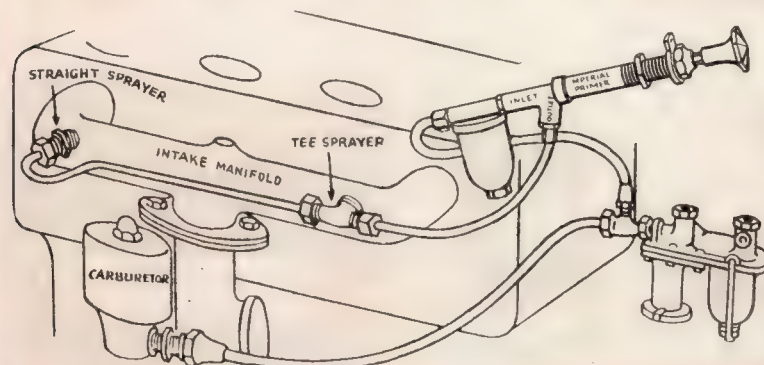
98-D Imperial Primer for all makes of cars, except Models T and A Ford.....\$3.85

99-D Imperial Primer for all models of Ford cars, excepting 1932, 1933, 1934 and 1935..... 3.85

How It Works

Pulling out the plunger of the primer pump draws gasoline from the vacuum tank or fuel pump into the Primer pump.

When the plunger is released, the gasoline is forced into the firing chamber of the motor in a gaseous form, where it will ignite with the spark and the motor will start instantly.

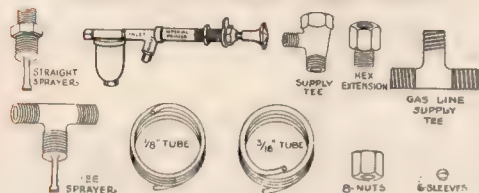


Typical Primer Installation

IMPERIAL PRODUCTS

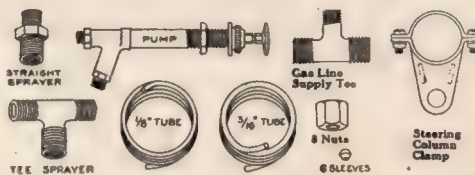
The Imperial Primer

Contents of No. 98-D Primer Outfit



1 No. 157-DT Pump Only.....	Each	\$2.75
1 No. 109-F Sprayer Tee $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " I.P.T.....		.20
1 No. 108-F Straight Sprayer $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " I.P.T.....		.20
1 No. 76-F Supply Tee $\frac{3}{8}$ " O.D. x $\frac{1}{8}$ " I.P.T.....		.20
1 No. 217-E $4\frac{1}{2}$ foot coil $\frac{1}{8}$ " O.D. tubing.....		.25
1 No. 218-E $4\frac{1}{2}$ foot coil $\frac{1}{8}$ " O.D. tubing.....		.25
1 No. 78-F Gasoline Tee $\frac{1}{4}$ " O.D. x $\frac{1}{4}$ " O.D. x $\frac{1}{8}$ " O.D.....		.20
1 No. 27068 Hex Extension .....		.15

Contents of No. 99-D Primer Outfit



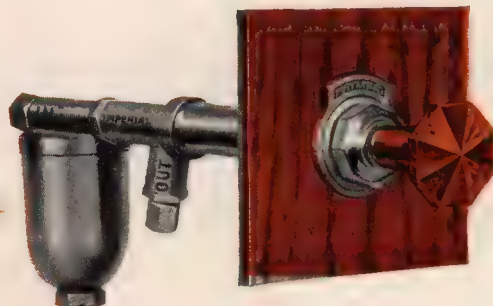
1 No. 157-D Pump Only.....	Each	\$2.50
1 No. 70-D Sprayer Tee $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " I.P.T.....		.20
1 No. 71-D Straight Sprayer $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " I.P.T.....		.20
1 No. 214-E 4 foot coil $\frac{1}{8}$ " O.D. tubing.....		.25
1 No. 215-E 3 foot coil $\frac{1}{8}$ " O.D. tubing.....		.25
1 No. 78-F Gas Line Tee $\frac{1}{4}$ " O.D. x $\frac{1}{4}$ " O.D. x $\frac{1}{8}$ " O.D.....		.20
1 No. 96-D Steering Column Clamp .....		.60

Each Primer Outfit is packed in an attractive three-colored box with four outfits in a display carton.

The display carton is in three colors, making it a very attractive and effective counter or window display.



Imperial Primer Sales Helps



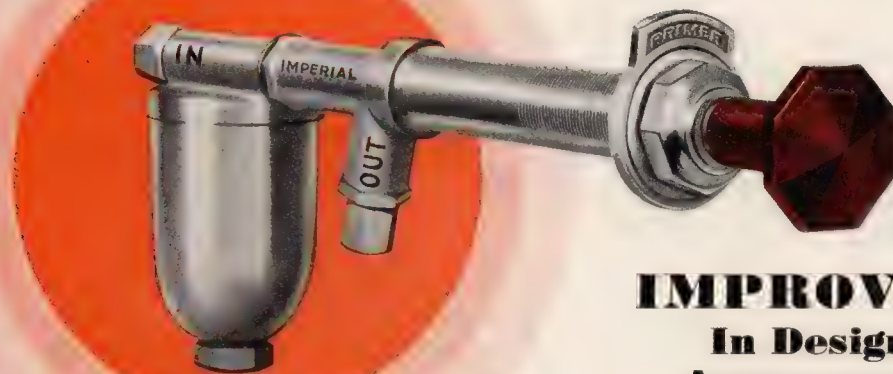
Imperial Primer Sales helps are available to dealers without cost. These consist of attractive circulars, hangers, banners, and decalcomanias.

A most effective selling aid is a Primer pump mounted on a Bakelite panel. This may be placed on the counter where customers can see the attractive appearance of the Primer and the principle of its operation. All fittings are furnished with each Display Primer so that it may be sold if desired.

198-D Display Outfit with fittings as furnished with No. 98-D. Outfit.....	\$3.85
199-D Display Outfit with fittings as furnished with No. 99-D. Outfit.....	3.85



The Imperial Primer



IMPROVED In Design Appearance and Performance

The new Imperial Primer will sell faster than ever before! Improved in design and in appearance, it is sure to be this season's biggest profit-maker. The new Imperial Primer is modern—as modern as next year's car models. It has a modernistic Bakelite knob and polished nickel-plate finish on all exposed metal parts. It merits a place on the most artistic instrument panel.

A reservoir has been added to the intake of the new Imperial Primer, adapting it

for use in connection with every type of fuel system—pump or vacuum tank. There is a special outfit for Models T and A Fords which does not require the reservoir.

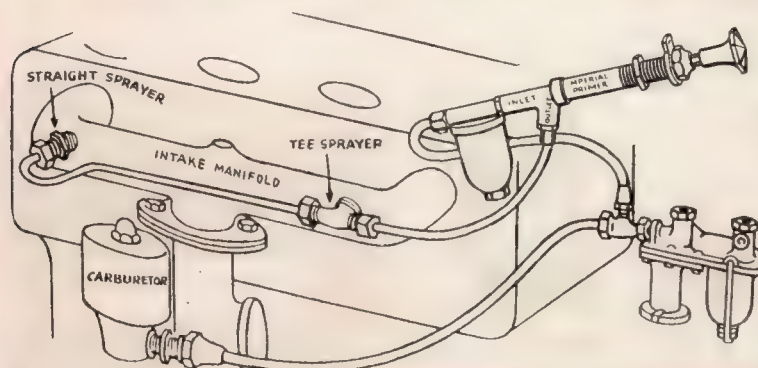
Of course the principal feature of the new Imperial Primer is its assured efficiency. It will positively enable the owner of any car to start his motor instantly in the coldest weather—even in sub-zero temperatures. Easily and quickly installed, it's a real profit-maker.

Cat. No.		Each
98-D	Imperial Primer for all makes of cars, except Models T and A Ford.....	\$3.85
99-D	Imperial Primer for all models of Ford cars, excepting 1932, 1933, 1934 and 1935.....	3.85

How It Works

Pulling out the plunger of the primer pump draws gasoline from the vacuum tank or fuel pump into the Primer pump.

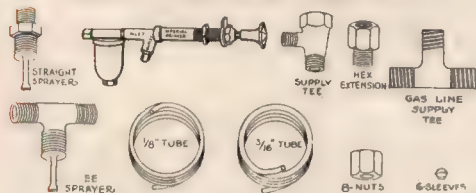
When the plunger is released, the gasoline is forced into the firing chamber of the motor in a gaseous form, where it will ignite with the spark and the motor will start instantly.



Typical Primer Installation

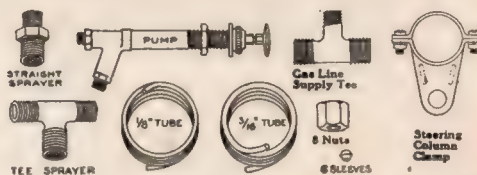
The Imperial Primer

Contents of No. 98-D Primer Outfit



1 No. 157-DT Pump Only.....	Each	\$2.75
1 No. 109-F Sprayer Tee $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " I.P.T.....		.20
1 No. 108-F Straight Sprayer $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " I.P.T.....		.20
1 No. 76-F Supply Tee $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " I.P.T.....		.20
1 No. 217-E $4\frac{1}{2}$ foot coil $\frac{1}{8}$ " O.D. tubing.....		.25
1 No. 218-E $4\frac{1}{2}$ foot coil $\frac{1}{8}$ " O.D. tubing.....		.25
1 No. 78-F Gasoline Tee $\frac{1}{4}$ " O.D. x $\frac{1}{4}$ " O.D. x $\frac{1}{8}$ " O.D.....		.20
1 No. 27068 Hex Extension .....		.15

Contents of No. 99-D Primer Outfit



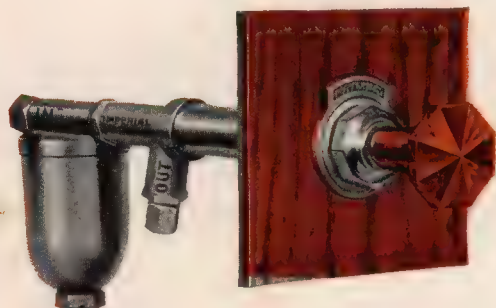
1 No. 157-D Pump Only	Each	\$2.50
1 No. 70-D Sprayer Tee $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " I.P.T.....		.20
1 No. 71-D Straight Sprayer $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " I.P.T.....		.20
1 No. 214-E 4 foot coil $\frac{1}{8}$ " O.D. tubing.....		.25
1 No. 215-E 3 foot coil $\frac{1}{8}$ " O.D. tubing.....		.25
1 No. 78-F Gas Line Tee $\frac{1}{4}$ " O.D. x $\frac{1}{4}$ " O.D. x $\frac{1}{8}$ " O.D.....		.20
1 No. 96-D Steering Column Clamp60

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Imperial Primer Sales Helps



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198-D Display Outfit with fittings as furnished with No. 98-D. Outfit.....	\$3.85
199-D Display Outfit with fittings as furnished with No. 99-D. Outfit.....	3.85



Imperial Paint Spray Equipment

SPRAY GUNS

HI-DUTY Spray Gun

This spray gun has many features not found in other spray guns and, because of its simple design and construction, it is easy to operate, clean and adjust. It can be dismantled and cleaned in a fraction of the time required by other guns.

The Imperial HI-DUTY produces a uniform flow of material, perfectly atomized and free from streaks, thereby assuring a uniform wet coat so necessary in securing a good finish.

The fluid needle and air valve stem are made of stainless steel. The fluid needle is provided with a positive adjustment which gives the operator complete control of material. This perfectly-balanced gun has a two-point hand support and two-finger trigger. It produces an adjustable flat spray and atomizes material at low air pressures.

No. 67-C HI-DUTY Spray Gun with Cup Assembly.....	\$28.85
No. 65-C HI-DUTY Spray Gun without Cup Assembly.....	24.85
No. 66-C Cup Assembly	4.00



No. 67-C HI-Duty Spray Gun

PRESSURE CUP Type Spray Gun



No. 85-C Pressure Cup type Spray Gun

not less than two cu. ft. of air per minute. The material cup holds one quart.

No. 85-C PRESSURE CUP Type Spray Gun...	\$12.85
No. 86-C Extra Cup only.....	1.35

This spray gun permits the operator to use heavier materials and obtain a faster and better atomized stream than any other gun of this size and type. It delivers material to the nozzle under air pressure in the cup and is recommended for general painting in and around the home, in private garages, etc. It handles paints, varnishes and lacquers and will operate satisfactorily on any ¼-H.P. compressor unit with displacement of

JUNIOR Spray Gun

The Imperial JUNIOR spray gun is similar to the HI-DUTY, but is smaller in size. It is used for refinishing and touch-up work on automobiles, furniture, toys, novelties, sign painting, and for all other work where high speed is not essential or the air supply is limited. It produces an adjustable flat spray and atomizes material at low air pressure. It has a two finger trigger, two-point suspension, stainless steel fluid needle and air valve stem.

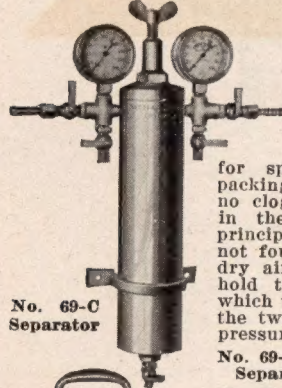
No. 77-C JUNIOR Spray Gun with No. 76-C Cup Assembly	\$18.35
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No. 75-C JUNIOR Spray Gun, without Cup Assembly	\$14.85
No. 76-C Cup Assembly	3.50



No. 77-C JUNIOR Spray Gun

HI-DUTY Water and Oil SEPARATOR (with regulator)



No. 69-C Separator

The HI-DUTY Water and Oil Separator removes all water and oil from the air, leaving it in perfect condition for spray finishing. No felt, waste packing or baffle plates are used and no clogging can occur to cause a drop in the air line pressure. The new principles embodied in this Separator, not found in other makes, assure clean, dry air. The regulators furnished will hold the air pressure at the point at which they are set without variation and the two gauges show line and working pressures.

No. 69-C HI-DUTY Water and Oil Separator	\$27.50
No. 89-C Water and Oil Separator with regulator and gauge.....	\$15.85



No. 89 C

Material Pressure Feed Containers

The use of a Material Pressure Feed Container is most essential, where a large quantity of paint is to be used, to save a great deal of time. Imperial Containers are made of heavy gauge seamless drawn steel with hinged clamps which allow the cover to be removed quickly and easily. The full size opening permits easy cleaning. Furnished in 2, 5 and 10 gallon sizes with pressure regulator, safety valve and air and fluid shut-off cocks.

All but the two gallon size are furnished with hand agitators and tin coated insert containers. Extra inserts can be supplied for any tank permitting quick changes of material.

No. 71-C Two gallon Material Pressure Feed Container (Cadmium Plated).....	\$22.50
No. 72-C Five gallon Material Pressure Feed Container (Galvanized)	48.00
No. 72-C Ten gallon Material Pressure Feed Container (Galvanized)	49.50



No. 71-C 2 gal. Container

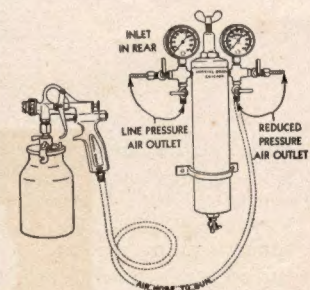


DIAGRAM SHOWING OUTFIT

No. 73-C Paint Spray Outfit	\$60.85
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Consists of: 67-C Spray Gun with Cup assembly.

69-C Water and Oil Separator with regulator; 25 ft. length ½ in. heavy duty air hose with connections.

No. 78-C Paint Spray Outfit	\$38.25
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Consists of: 77-C JUNIOR Spray Gun with cup assembly.

89-C Water and Oil Separator with regulator; 25 ft. length ¼ in. heavy duty air hose with connections.

Some Features of the Imperial Hi-Duty Spray Gun



**Simple, Effective
Easy to Operate
and Keep Clean**

1. Easier to dismantle for cleaning.
2. Self-aligning spray head, plug cock type, concentric with fluid nozzle.
3. Fan spray adjustable to any position by simply turning air cap.
4. Round spray quickly provided by changing air cap, simplifying construction.
5. Positive and accurate material control at handle.
6. Hardened and ground steel fluid tip.
7. Stainless steel fluid needle.
8. Positive fluid cut-off at nozzle orifice.
9. Forged brass air cap.
10. Light weight aluminum body.
11. Perfect balance.
12. Standard $\frac{1}{4}$ " hose connection.
13. Hose connected to base of handle.
14. Drawn aluminum suction feed cup.
15. Interchangeable pressure feed container connection.
16. Stainless steel air valve stem.
17. Automatic take-up on fluid needle packing.
18. Tapering fluid control.
19. Simplified construction throughout.
20. All parts interchangeable.

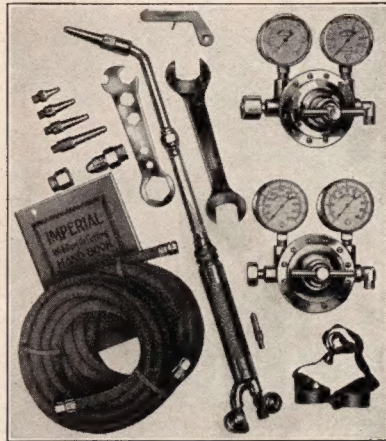
The forged brass air cap with its unique construction eliminates piling up of paint materials on face of nozzle; the light weight aluminum body gives maximum lightness, and its construction permits the greatest ease in disassembling for cleaning. The air hose connection is standard and is attached at base of handle to permit greatest convenience in manipulating gun. The drawn aluminum suction feed cup may be interchanged with pressure feed container of any desired size. The automatic spring take-up on fluid needle valve packing nut prevents leakage and the tapering fluid nozzle makes possible perfect control from fine line spray to broad ellipse with uniform coverage.

No. 65-C HI-DUTY Spray Gun without Cup Assembly\$24.85

Imperial Welding and Cutting Equipment

IMPERIAL No. 111 WELDING OUTFIT

IMPERIAL No. 117 WELDING OUTFIT



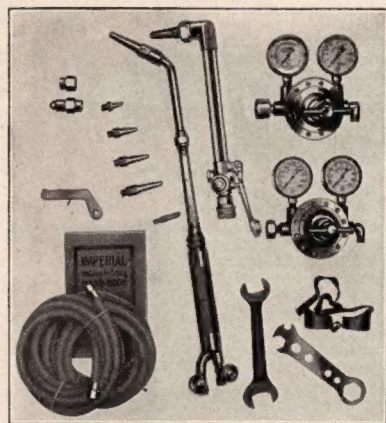
This welding outfit will do all welding work, from thin sheet metal to heaviest castings.

Consists of:

- Type X Welding Torch with 5 Type C Copper Welding Tips and 2 Mixers.
- Type K Double Gauge Oxygen Regulator.
- Type AA Double Gauge Acetylene Regulator.
- 12½-ft. length Heavy Duty Oxygen Hose.
- 12½-ft. length Heavy Duty Acetylene Hose.
- 1 pair Welding Goggles, 1 Spark Lighter.
- 2 Wrenches, complete Welding Handbook and Tank Adapters.

No. 111 Imperial Welding Outfit. Price.....\$69.50
Steel Carrying Case. Extra..... 6.00

IMPERIAL No. 114 WELDING AND CUTTING OUTFIT



Adaptable for maintenance work or for use in garages, repair shops, etc., where light and heavy welding and a nominal amount of cutting is to be done. The cutting attachment can be quickly attached to the welding torch, thus converting it into a cutting torch when desired.

Consists of:

- Type X Welding Torch with 5 Type C Copper Welding Tips and 2 Mixers.
- Type X Cutting Attachment, with No. 2R Cutting Tip and Locknut.
- Type K Double Gauge Oxygen Regulator.
- Type AA Double Gauge Acetylene Regulator.
- 12½-ft. length Heavy Duty Oxygen Hose.
- 12½-ft. length Heavy Duty Acetylene Hose.
- 1 pair Welding Goggles, 1 Spark Lighter, 2 Wrenches, Tank Adapters, and complete Cutting and Welding Handbook.

No. 114 Welding and Cutting Outfit. Price.....\$87.00
Steel Carrying Case, Extra..... 6.00



An "All Purpose" Outfit for every repair shop and factory.

Consists of:

- Type 4-X Welding Torch, 4 Copper Welding Tips.
- 1 Type B Double Gauge Oxygen Regulator.
- 1 Type BB Double Gauge Acetylene Regulator.
- 12½-ft. length Heavy Duty Oxygen Hose.
- 12½-ft. length Heavy Duty Acetylene Hose.
- 2 Wrenches, pair Goggles, Spark Lighter, Tank Adapters and Welding Instruction Book.

No. 117 Imperial Welding Outfit. Price.....\$54.50
With Cutting Attachment. Price..... 72.00
Steel Carrying Case Extra..... 4.50

IMPERIAL No. 112 WELDING OUTFIT



This outfit is similar to No. 117 excepting that the Regulators are single gauge instead of double gauge.

Consists of the following:

- Type 4-X Welding Torch and 4 Copper Welding Tips.
- Type D Oxygen Regulator.
- Type DD Acetylene Regulator.
- 12½-ft. length Heavy Duty Oxygen Hose.
- 12½-ft. length Heavy Duty Acetylene Hose.
- 2 Wrenches, Spark Lighter, Tank Adapters, 1 pair Goggles and Welding Instruction Book.

No. 112 Imperial Welding Outfit. Price.....\$45.00
With Cutting Attachment. Price..... 62.50
Steel Carrying Case, Extra..... 4.50

WRITE FOR COMPLETE WELDING AND CUTTING EQUIPMENT CATALOG

Imperial Service Equipment and Supplies

Type X Welding Torch

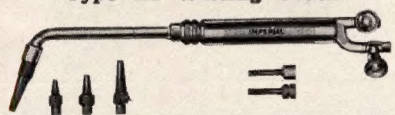


The Type X Imperial Welding Torch is our standard torch and will do all types of oxy-acetylene welding within the limits of the process. It is light in weight but extremely rugged and will stand a lot of hard usage.

This torch is 20 inches long, and may be lengthened to 26 inches by using the 6-inch extension (furnished when ordered). Also furnished are 5 Type C Copper Tips, Hose Connections and Two Mixers which permit regulation of the mixture in proportion to the tips being used. The Type X Torch is furnished with Imperial Outfits No. 111, 114 and 115.

Type X Welding Torch, with 5 Tips. Each.....\$24.50

Type 4X Welding Torch



The Type 4X Imperial Welding Torch is of the same general design as the Type X Welding Torch, but is smaller in size, being 16 inches long. It is ideal for sheet metal and auto repair work and for general use in garages and repair shops. Complete with 4 Copper Tips. The Type 4X Imperial Welding Torch is furnished with Imperial Outfits Nos. 112 and 117.

Type 4X Welding Torch, complete, with Tips.

Each\$19.50

Type X Cutting Attachment

The Type X Imperial Cutting Attachment is equipped with Type 2R Cutting Tip. Easily and quickly assembled to the Type X or 4X Imperial Welding Torch by simply removing the Tip Holder and screwing the attachment in place. This attachment is a regular part of the Type XA Imperial Torch furnished with Imperial Outfit No. 114 but may be purchased separately if desired for attachment to the Type X or Type 4X Imperial Welding Torch.

Type X Cutting Attachment, with Cutting Tip.

Each\$17.50

No. 31 Brazing and Soldering Outfit



For Use with Acetylene

Adaptable for all kinds of brazing and soldering work. Tank connection fits small auto type acetylene light tank and can be used on large size cylinders by means of an adapter. Amount of gas is regulated by the needle shut-off valve. Has 2 brazing tips, radiator soldering tip, soldering iron, 6 feet of hose with needle shut-off valve.

No. 31 Outfit. Price.....\$7.00

No. 30 Outfit is the same as No. 31 Outfit, excepting that it does not have the soldering iron and needle shut-off valve, but is furnished with tank connection.

No. 30 Outfit. Price.....\$4.50



Friction Spark Lighter

No. 59-H Friction Spark Lighter. Each.....\$0.25

No. 59-HH Renewal Tips. Each\$0.10

Imperial Welding and Cutting Goggles



Nos. 86-H and 87-H Goggles

The No. 87-H Goggles are light, rust-proof, sanitary, strong and perfect fitting. Amber lenses of just the right density give full protection to the eyes.

Easily renewable, plain glass cover lenses protect the amber lenses from blistering. Can be worn with comfort.

The No. 86-H are similar to the No. 87-H, except lighter and less expensive.

No. 86-H Welding and Cutting Goggles, per pair.....\$2.00

No. 87-H Welding and Cutting Goggles, per pair. 3.00

No. 88-H Amber Lens for No. 87-H Goggles, each .75

No. 89-H Blue or Green Lenses for No. 87-H, each .50

No. 90-H Cover Glass for No. 87-H Goggles, each.. .35

No. 111-H Amber Lens for No. 86-H, each..... .50

No. 112-H Blue or Green Lenses for No. 86-H, each .50

No. 113-H Clear Cover Glass for No. 86-H, each.. .35

IMPERIAL GASWELD FLUX

Imperial Gasweld Flux will help you to weld and braze better. A universal flux that dissolves oxides quickly, releases trapped gasses, clears the surface to be worked on, and "makes metal flow easy." You will find it far superior to ordinary flux for welding cast iron and steel and for brazing or bronze welding cast iron, malleable iron, and steel. Try Imperial Gasweld Flux for welding steel to cast iron, malleable iron to cast iron, or malleable iron to steel.

Experienced welders tell us that it enables them to save time and labor and to turn out better work. Metal flows uniformly when this new compound is used, promoting perfect fusion. The price of a 1-lb. can is only \$1.50.

Order a 1-lb. can of this new flux today. Use it on your next job. If you are not more than pleased with results, return what you have left and the full purchase price will be refunded.

Gasweld Flux, 1-pound can. Each.....\$1.50



Imperial Welding Flux

No. 20-H For welding cast iron, 1/2-lb. cans\$0.20

No. 20-H 1-lb. Cans38

No. 21-H For welding brass, bronze and copper, per lb.\$0.50

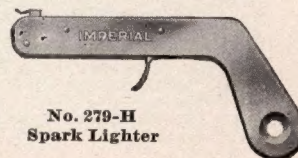
No. 22-H For welding aluminum, per lb.\$2.00

SPARK LIGHTER (Shoot-a-Lite)

Offers a convenient method of lighting welding and cutting torches. Each pull of the trigger produces shower of sparks.

No. 279-H Spark Lighter. Each..\$0.50

No. 280-H Extra Flint. Each.... .10



No. 279-H Spark Lighter